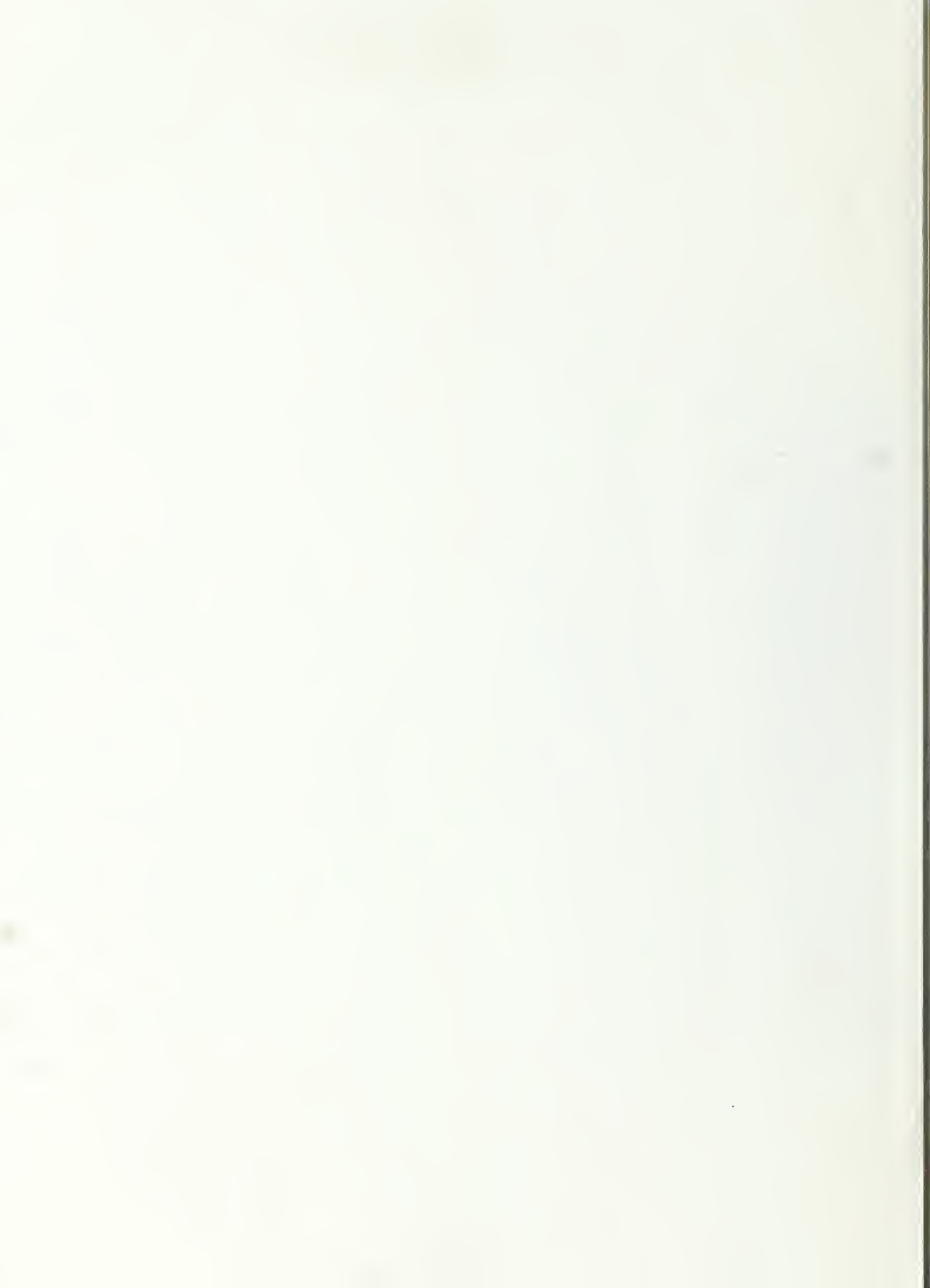




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The

CHEMIST AND DRUGGIST

Established 1859

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Registered as a Newspaper

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VOL. CXVIII.

APRIL 15, 1933

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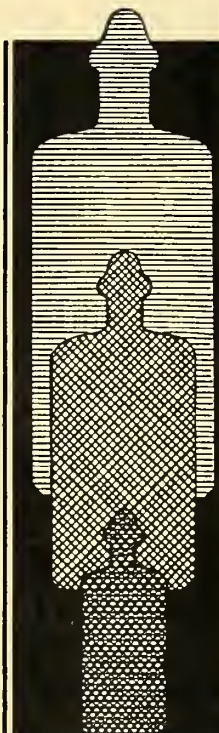
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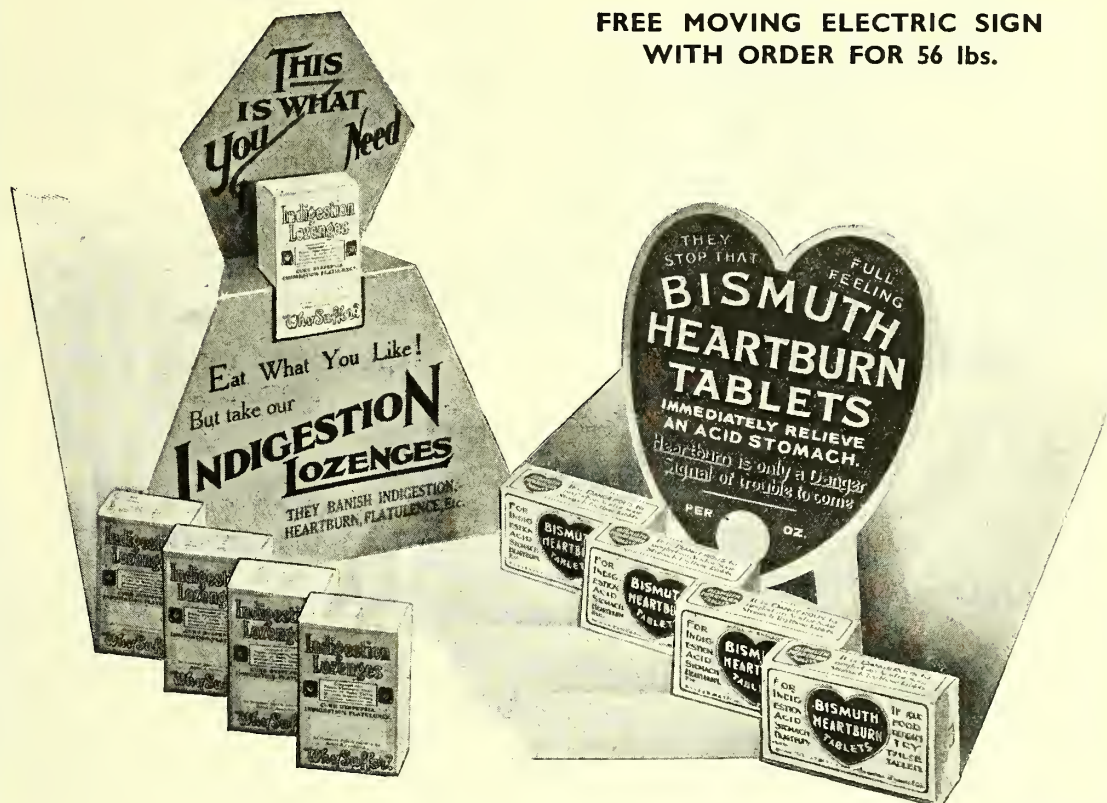
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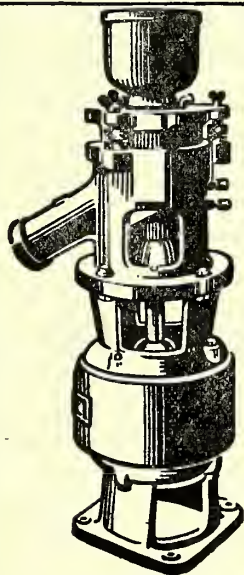
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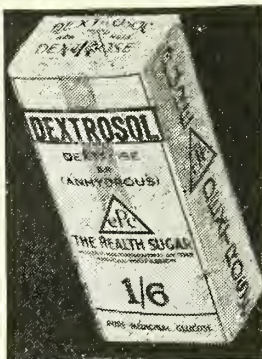
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D.A. 36



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DEXTROSE B.P.

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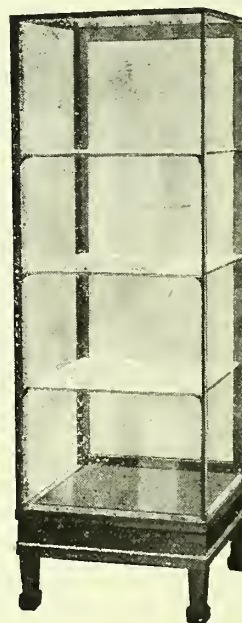
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The selling has been done before the mother reaches the chemist, and, having supplied her, it is only common sense to claim she will buy other family necessities from him. Moreover, the continuous demand for it produces a quick turnover.

For Direct Terms apply to—

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EVANS' BIOLOGICAL INSTITUTE

A special department of this Institute is devoted to the production of organo-therapeutic extracts, and to their chemical and physiological assay.

This department embraces the standardisation of such preparations as:—

Digitalis.	Powder and Tincture.
Ergot.	Prepared and Tincture.
Liver Extracts.	The Hepatex Series and Ext. Hepatis Liq. B.P.
Pituitary Extract.	Infundibulin.
Strophanthus.	Tincture.
Thyroid.	Powder and Tablets.

Our extensive output enables us to give favourable quotations to large buyers.

Evans Sons Lescher & Webb Ltd.

Manufacturers of Fine Chemicals, Pharmaceutical & Biological Products
LIVERPOOL, LONDON AND DUBLIN

The original combined Cream and Powder

VELOUTY de DIXOR



The advertised line that you are asked for.

NOW ON P.A.T.A.

Samples free upon receipt of trade card or billhead.

PRICES :—No. 1. Handbag tube	3/- doz.	Retail	-/4½
No. 2. Small tube	4/-	"	-/6
No. 3. Medium tube	7/-	"	1/-
No. 4. Large tube	14/-	"	2/-
No. 5. Super tube	22/-	"	3/-
Pots (glass)	21/-	"	2/9
Pots de luxe (unbreakable)	36/-	"	4/6

Made in four shades :

WHITE, IVORY, NATURAL and OCHRE.

Obtainable from your regular Wholesaler or direct from the Manufacturers :

DIXOR, LTD., 68, Newman St., Oxford St., London, W.1

Sole Distributors for

Northern Ireland : ROBERT MAYRS & CO., 43 Chichester Street, BELFAST
Irish Free State : MAY, ROBERTS & CO. LTD., Grand Canal Quay, DUBLIN

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HIGH-CLASS TOILET PREPARATIONS

Our Toilet Preparations are, we think, equal to any high-class product on the market. A deal of attention has been given to make them worth selling. They are packed in bottles of unique shape with bakelite caps and the well-designed labels give them a refined appearance. For a high-class range of quality Toilet Productions they are priced to afford an excellent margin of profit to you.

PERFUMES

HAIR

PREPARATIONS

SMELLING SALTS

also

VANISHING CREAM

TALCUM POWDER

FACE POWDER

ETC.

(PACKED OR BULK)



A copy of our latest price list, together with full particulars, etc., will gladly be sent to all enquirers. Write: Dept. C.D. 6, William Hay Limited, Manufacturing Chemists, Hull.

PLASSARD SIFTER BOX for loose POWDER

With and without ROUGE. The Very LATEST and BEST. SURPASSES ALL OTHERS.

POINTS OF SUPERIORITY :

Swansdown Puff, Rouge Sieve

Pad, Unbreakable Mirror—

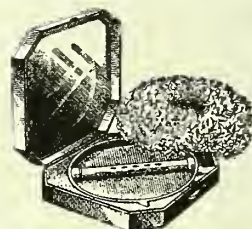
Simple watch movement—The

POWDER is easily refilled by

lifting up the centre tray—No Powder can possibly be spilt

—No waste—The Powder sifts in the centre only.

SILK'S TOILET Co., 8 & 9 Red Lion St., London, W.C.1



62% Profit on Turnover
by selling

PEROX SUPER PEROXIDE TOOTH PASTE

(Double Strength)

6d. and 1/-, price protected.

Sold by Chemists only.

Extensive range of Display Material.

BRITISH MADE

Send also for range of "Own Name" packs and keenest quantity terms

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Roger & Gallet's

authentic and genuine Jean Marie Farina

EAU DE COLOGNE



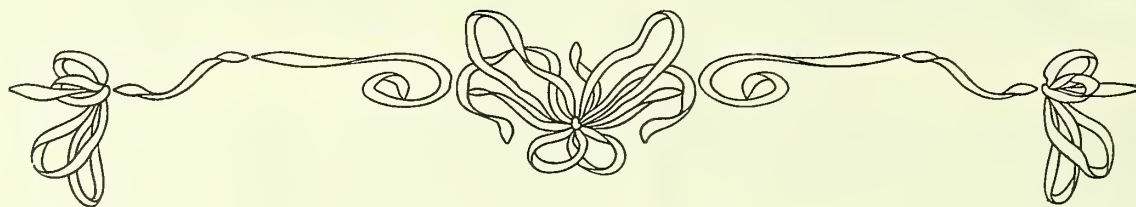
guaranteed to be entirely made with the best dutiable S.V.R. spirit. No methylated nor any other Industrial spirit known as Duty-Free is used in any of ROGER & GALLET'S preparations.

Retail Prices - - - 4/9, 8/9, 18/6, 40/- and 80/-.

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LONDON and PARIS



AN INVITATION

To our friends in the pharmaceutical profession who will read about us in this issue, we would extend a very cordial invitation to visit us at our new home on the Great West Road.

We shall take pride and pleasure in showing them how a watchful laboratory strives to maintain the professional ideals; how conscientiously standards of purity and quality are upheld; how zealously we try to give the chemist the most modern and efficient service in our power; how we ally to that service a very real interest in each of our customers, so that even in a large organisation we can still maintain our ideal of personal service.



Members of the pharmaceutical profession who wish to visit our new factory are asked to write us in advance, so that arrangements can be made for their reception. Parties from pharmaceutical associations and colleges cordially invited. MACLEANS Ltd., Great West Road, Brentford, Middlesex. Ealing 6616. Telegrams, Macleans Brentford.



AN APOLOGY TO THE TRADE

BY

BOURJOIS

Evening in Paris Easter Eggs

WE tender our sincere apologies to those of our customers whom we had to disappoint in their orders for the above novelty. The demand exceeded all possible estimates. No expense was spared to manufacture further supplies in time for the Easter Trade, but it was impossible for our factory to meet the demand.

While regretting the necessity of this apology, we are gratified at this further evidence of the wonderful popularity of "Evening in Paris." Our advertising is more extensive than ever.

Stock and prominently display

"Evening in Paris" Toilet Preparations IT PAYS!

The following are the principal items with their retail prices:

Perfume 1/3, 3/9, 7/6, 12/6, 21/- & 25/-	Vanishing Cream	- 9d. & 2/-	Friction Lotion	- . . . 2/9
Face Powder 1/9	Talcum Powder	- . . . 2/-	Tablette Indienne	- . . . 1/9
Compact Powder in nickel	Lipstick	- . . . 1/9 & 2/-	Hair Cream	- . . . 1/6
and enamel case 2/6	Bath Crystals	- . . . 2/-	Brilliantine (Liquid)	- . . . 2/-
Double Compact (Rouge and	Bath Dusting Powder	- 3/6 & 5/6	" (Solid)	- . . . 1/6
Powder) in nickel & enamel case 5/6	Toilet Soap	- 6d., 1/- & 1/6	Shampoo Powder	- . . . 6d.

These prices apply to the United Kingdom only.

A. BOURJOIS et CIE., LTD., 4, WATER LANE, LONDON, E.C.4

Laboratories and Works:—

71-73, Carter Lane, London, E.C.4, and River Plate Wharf, Upper Ground Street, London, S.E.1

BOURJOIS

PRECIPITATED CHALK

LIGHTEST—MEDIUM—DENSE.
And All Other Grades To Suit Every Purpose.
CHEMICALS FOR ALL INDUSTRIES.

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A. LEVERMORE & CO. LTD. ABC Codes,
110 CANNON STREET, LONDON, E.C.4. 5th & 6th Editions.

"ODENTIC" PLATE BRUSH

Regd. No. 417637.

From all
Wholesalers.

Manufacturers:

W. R. Speer & Son (EST. 100 YEARS)
215 DALSTON LANE - - LONDON, E.8

HANG IT

**UP AND LET
IT SELL ITSELF**

Supplied on cards or
boxed. Show cards
with every order.

1D.

Each
Retail



MADE BY
GEORGE IBBERSON & CO.
Razor Works, 146 West St., Sheffield

PURE ORANGE WINE

A. MILLAR & CO., LTD., DUBLIN

(VINUM AURANTII B.P. 1914.) Prepared in strict accordance with the Formula of the British Pharmacopoeia. (Wholesale only.)
Samples from Head Office, Thomas Street, DUBLIN, or London Office, 74 Great Tower Street, LONDON, E.C.3.

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**TRAGACANTH
and ARABIC**

As Imported or Finely Powdered

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FREDK. FINK & CO., 10 & 11 Mincing Lane, London, E.C.3
Telephone: ROYAL 5094.

"MUNA" Service D & P

Daily Collection and Delivery in
Birmingham area.

Same Day Postal Service.

ENLARGEMENTS.

Colour Work.

DISCOUNT

40% & 2½

Munns Bros. Ltd.

45/57
Summer Row

Birmingham

PHOSPHATE OF SODA, Pure

For Food Purposes

ASK FOR SAMPLE AND PRICES

PERRY & HOPE, LTD.

Forth and Clyde Chemical Works, NITSHILL.

Telephone: Giffnock 414 (2 lines).

Telegrams: "Perryope, Nitshill."

THE ORIGINAL BLACK BEER

For over a century Hobson's Black Beer (non-intoxicating) has been well known. Backed by sustained advertising there is a steadily increasing demand. Special agency terms to wholesalers are now available in certain districts. Own name literature and other sales aids gladly supplied. Wholesale enquiries invited.

JOSEPH HOBSON & SON, Ltd., Regent St., LEEDS
*Phone: LEEDS 25270
Telegrams: "SPRUCE," Leeds

"YUNDA" BEAUTY PREPARATIONS

Antiseptic Cleansing Lotion to retail at 5/6 a bot. Cleansing Cream to retail at 4/6 a jar. Face Powder (in Naturelle, Rachel, Dark Peach and Apricot shades) to retail at 3/6 a box.
As now advertised in the Press, are obtainable from sole Proprietress:
MADAME YUNDA, Forest Row, Sussex



SHADEINE FOR TINTING GREY HAIR

This popular article is largely advertised and stocked by all Wholesale Houses.
Trial size 8d. per doz. 6/-
1/4 size, per doz. 12/-
2/6 size, per doz. 24/-
3/9 size, per doz. 36/-

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Chemists' Fittings

When you want Shop Fittings it will pay you to send to

GEORGE COOK

The Chemists' Working Shopfitter.

27 Macclesfield Street, City Road, LONDON, E.C.1
30 years' experience. Rough Sketches free.

Cachet CLOSING and FILLING machines

4/6 to 52/6

to suit all Dispensing Requirements.
WRITE FOR ILLUSTRATED LIST.

THOS. CHRISTY & CO., 4-12 Old Swan Lane, LONDON, E.C.4.

**IN MOST PLACES WHERE
DISTILLED WATER IS
USED, YOU WILL FIND**

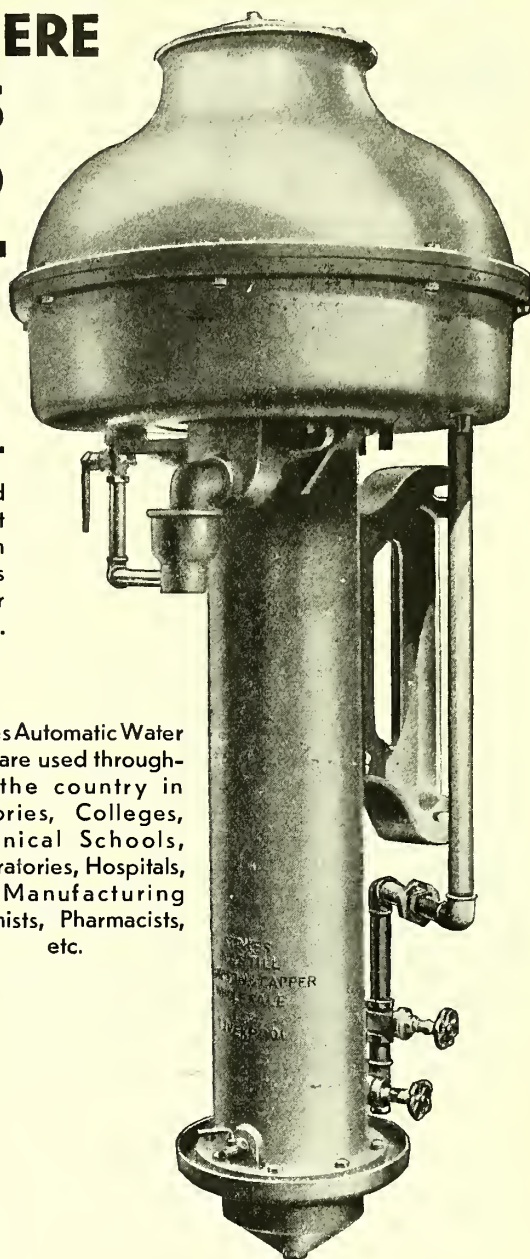
**—A—
STOKES
AUTOMATIC WATER STILL**

The reason is obvious. Stokes Stills have been tried and proved to be the most economical and efficient stills yet invented. Made in varying sizes capable of producing from 3 pints to 80 gallons of distilled water per hour. Stokes Water Stills can be operated by Steam, Gas, Electricity or Paraffin. They hang on the wall and thus save floor space.

NOW ALL BRITISH.



Stokes Automatic Water Stills are used throughout the country in Factories, Colleges, Technical Schools, Laboratories, Hospitals, by Manufacturing Chemists, Pharmacists, etc.



This illustrated booklet will be sent FREE on receipt of a postcard. It gives full particulars and prices of all types and contains some very useful information.

THOMPSON & CAPPER WHOLESALE LTD.
MANESTY BUILDINGS, 5 COLLEGE LANE, LIVERPOOL 1.

BILLOWZONE

Complete SEA Bath Salt
and perfect Ozonator in one

BILLOWZONE is practically reconstructed sea-water, prepared in progressive stages from more than ten ingredients. Instantly dissolves in hot or cold water, to which it imparts the full properties and refreshing aroma of sea-water, at the same time permeating the air with ozone and organic iodine.

Send post card for specimen free booklet and trade terms to

**EXTREMELY
SMART NEW
PACKAGES**

**CONVINCING
LITERATURE**

PRICES:

4d. Carton 3/6
7 lb. Box 4/9
28 lb. Drum 17/6

BILLOWZONE (1929) LTD.

KING WILLIAM STREET HOUSE,
ARTHUR STREET, LONDON, E.C.4
(Mansion House 7044)

Wholesalers can obtain supplies from new laboratories, 3 Charlotte Mews, Tottenham Street, London, W.1

SPECIAL SULPHO-CREAM SOAP

**FOR BLACKHEADS, PIMPLES,
ROUGH & BLOTCHY SKINS**

*THE CHEMISTS' LINE
FOR SPRING TRADE*

MADE BY

R. F. WHITE & CO. LTD.
TOILET & MEDICATED SOAP MAKERS
MITCHAM

MITCHAM 4035

6,000,000
Daily Mail Daily Express
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PEOPLE

are reading about the wonderful value
of the **"LAUREL"**
New Improved

LAUREL
DUMB-BELL Regd.
Razors & Blades
Are you ready to supply?

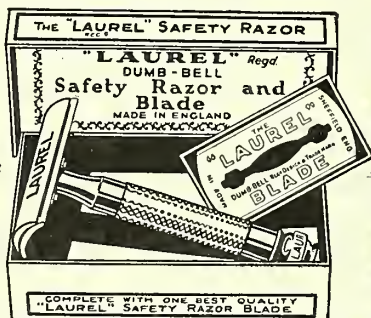
Retails
1½d.
each.

PACKET OF
4 for 6d.

Order your Stock
to-day.

COMPLETE
OUTFIT
FOR

6d.



Geo. H. Lawrence Ltd. Laurel Wks.,
Nursery St., Sheffield

Safety Razor Blades to Private Brands

We are specialists in the production
of Safety Razor Blades to Private
Brands.

Home or Export.

Prices competitive.

Special wrappers, cartons and labels
designed to customers' ideas.

In fact your Private Brand complete
and ready for sale.

Large output available from most
modern Plant.

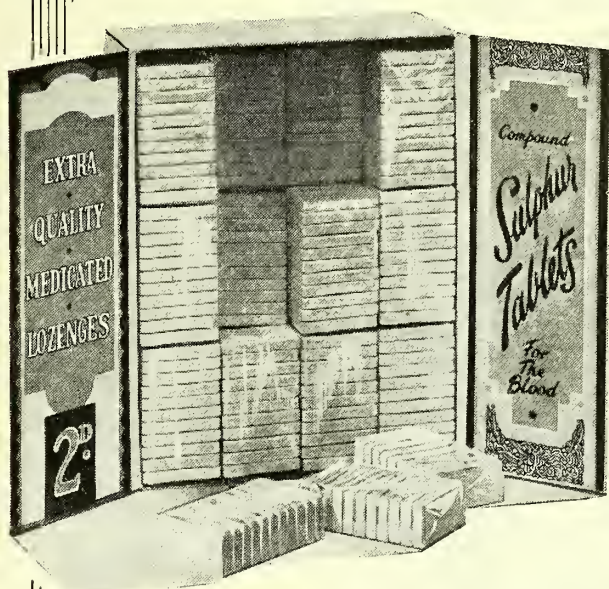
Consult:

Dominion Steel Corp. Ltd.
"Fleet" Works, Queen's Road,
Sheffield, England

Potter & Clarke's

SPRING LINES

Attractive Displays
Good Profits

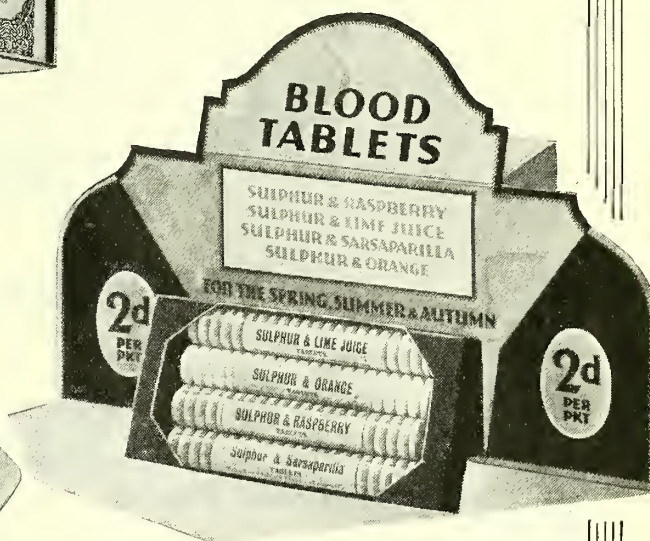


Compound Sulphur Tablets
in Box with strut support
and flap-over Lid.
2d. Packets (oblong). 12/- gross.



Lime Juice and Sulphur Blood Tablets

6d. Cartons. 3/6 doz.
gross lots at 3/3 doz.



Blood Tablets

3 doz., in display outer, can be
supplied assorted Raspberry, Lime
Juice, Sarsaparilla or Orange Flavour,
or 3 doz. of one kind. A very attractive
and novel display.

2d. packets. 12/- gross.



POTTER & CLARKE Ltd.

60-64 ARTILLERY LANE, LONDON, E.1
and at 24 Luna St., Great Ancoats, Manchester

Phone: Bishopsgate
4761 (5 lines)

Wires: "Harehound,
Phone, London."

SASSO

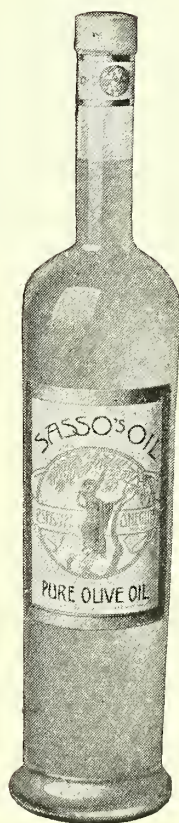
OLIVE OIL

The Standard of Quality



THE PRODUCER

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Producers :

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Sole distributors for the United Kingdom : Fredk. Boehm Ltd.
17 Jewry St., London, E.C.3



AN APOLOGY

D. L. Chetty, B.A., B.L.,
Advocate.
Bellary,
India.

Dated 19th January, 1933.

Messrs. Burroughs Wellcome & Co.,
London.

Dear Sirs,

Ref: "'Hazeline' Snow"—"'Raja' Snow"

I am instructed by my clients V. Raja Mudaliar & Sons, Bellary, to state that the terms in my letter No. 1433/32 O.L. dated 21st November, 1932, are hereby confirmed, in token of which my clients affix their signature hereunder.

As agreed upon, my clients admit your right to the name "'Hazeline' Snow". They are sorry that the face design, carton and label hitherto used by them for "'Raja' Snow" should have given room for complaint by you. They hereby undertake to desist forthwith from printing or using the face designs, labels or cartons complained of, and to destroy all the printing blocks dies, labels, etc., with them or under their control.

Yours faithfully,
(sd.) D. L. Chetty.

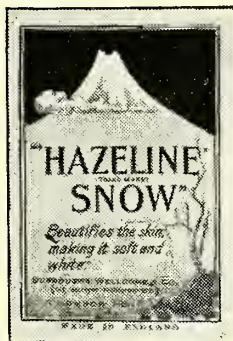
Countersigned:
(sd.) V. R. Subramanyam
(V. Raja Mudaliar & Sons).

The registered Trade Mark "'Hazeline' Snow" denotes specifically a Burroughs Wellcome & Co. product.

Manufacturers and vendors of imitations are rigorously prosecuted in the interests of dealers, the public and ourselves.



The imitation



The genuine

Reduced facsimile of "'Hazeline' Snow" carton facing design with, above, reduced facsimile of the carton facing design of the fraudulent product



BURROUGHS WELLCOME & CO., LONDON

“HAZELINE”
(Trade Mark)
SNOW”

The original non-greasy toilet preparation.

Prices in London to the trade (subject):

Glass pots ... 15/- per doz.
Collapsible tubes ... 5/5 per doz.

*Warrick's
New Health Sweet
and Thirst-
Quencher*

GRAPE FRUIT GLUCOSE DROPS

Containing
Glucose and Grape Fruit Juice.

Packed in artistic tins "Week-end size"
also in screw-capped jars and in bulk.

A new and delightful flavour.

Show Card with all orders.

Full particulars on application to

WARRICK BROTHERS, LTD

The Reliable House with more than a Century's Experience.

Nile Street, City Road, London, N.1.

Telephone : Clerkenwell 2452 (two lines).

Telegrams : Warrickers, Nordo-London.

THE CHEMIST AND DRUGGIST

A Weekly Journal of Pharmacy, the Drug, Chemical and Allied Trades

*The official organ of The Pharmaceutical Society of Ireland,
The Chemists' and Druggists' Society of Ireland, and of
other Chemists' Societies in Overseas Dominions*

PUBLISHED AT

28 ESSEX STREET, STRAND, LONDON, W.C.2

Telegrams: "Chemicus, Estrand, London" Telephone: Central 6565 (8 lines)

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4 CANNON STREET, MANCHESTER (TEL.: BLACKFRIARS 3052)

19 WATERLOO STREET, GLASGOW (TEL.: CENTRAL 2329)

155 AVENUE DE WAGRAM, PARIS, XVII^e (TEL.: GALVANI 19-79)

54 FOSTER'S BUILDINGS, HIGH STREET, SHEFFIELD (TEL.: 22458)

99 QUEEN STREET, MELBOURNE, AUSTRALIA

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News of the Week

Gift Coupons Trading

The Board of Trade announce that the Departmental Committee to consider trading practices in connection with the Gift Coupons Bill will be as follows:—Mr. Geoffrey Peto, C.B.E., M.P. (chairman), Mr. F. H. E. Branson, Mrs. H. A. L. Fisher, Mr. E. Furnival Jones, Professor D. H. MacGregor, Mr. W. E. Rootes. The Secretary to the Committee will be Mr. C. K. Hobson, M.B.E., to whom all communications should be addressed at the Board of Trade, Great George Street, London, S.W.1.

British Pharmaceutical Conference

One of the attractions of the British Pharmaceutical Conference, to be held in London from July 24 to July 27, lies in the fact that the Conference headquarters will be Grosvenor House Hotel. This hotel is in Park Lane, overlooking Hyde Park, and is one of the most remarkable that the world possesses. The house, which was rebuilt and is now the hotel, was in 1761 the home of the Duke of Gloucester, and was then called Gloucester House. Towards the end of the eighteenth century Richard, the first Earl Grosvenor, came to reside there and the name was changed to Grosvenor House. He built the Gallery to house the collection of pictures he had purchased for 30,000 guineas. Additions were made to this collection by the Earl's sons and grandsons, until it came to include some of the most renowned masterpieces. The magnificent hotel which now stands on the same site embodies comfort in its highest form, together with exquisite internal decorations. Arrangements have been made to accommodate a large number of visitors to the Conference in the hotel. It will be a great convenience to be on the spot for all Conference functions. In the Banqueting Hall world-famous people have

assembled under all kinds of circumstances. The Conference will bring other distinguished visitors, not only from all parts of the British Isles, but also from abroad.

The excursions proposed for ladies are:—Afternoons—matinée; visit to Cadby Hall; visit to Messrs. Liberty & Co. Mornings—Houses of Parliament and Westminster Abbey; Inns of Court and Law Courts; the Zoological Gardens; Croydon Aerodrome.

The excursion to Hampton Court is provisionally arranged as follows:—

11-11.30 a.m.	Coaches leave Grosvenor Square for Richmond, via Park Lane, Knightsbridge, Kensington High Street, Hammersmith Road, Hammersmith Bridge, Barnes Common, Richmond.
12 noon.	Steamers leave Richmond for Hampton Court.
1.15 p.m.	Lunch in the Tilt Yard, Hampton Court. During the afternoon visitors may visit the state apartments, Great Hall, cellars, kitchen, etc
4.30 p.m.	Tea served in the Tilt Yard, Hampton Court.
5.15 p.m.	Coaches leave Hampton Court for Grosvenor Square.

Proposed Registration of Osteopaths

A Bill "to regulate the practice of osteopathy and to prescribe the qualifications of osteopathic practitioners" has been introduced into the House of Commons by Mr. Boothby and eleven other members,

and is published (price 4d.) by the Stationery Office. The Bill consists of twenty-three clauses and two schedules. Clause 19 provides that every registered osteopath "shall be exempt from serving on all juries and inquests whatsoever." The First Schedule prescribes the constitution and proceedings of the proposed Osteopathic Board; the Second Schedule lays down the subjects to be studied before qualification and the minimum number of hours of study in each.

Contracts

The following tenders have been accepted by the bodies named:—

Faversham Town Council.—Mr. T. J. Thomas, chemist and druggist, drugs, etc.

Great Yarmouth Education Committee.—Mr. F. E. Whitfield, chemist and druggist, drugs, etc.

Isle of Thanet Joint Hospital Board.—D. T. Evans, Ltd., chemists, Margate, drugs; Burroughs, Wellcome & Co., serums.

Luton Public Assistance Committee.—Duberly & White, Ltd., chemists, drugs, dressings and appliances.

Miscellaneous

WINE LICENCE REFUSED.—At Dorchester, on April 3, an application by Mr. E. C. Clark, chemist and druggist, for a wine off-licence was refused.

POISON-LICENCE APPLICATION.—Eastern Wool Growers, Ltd., Ipswich, have applied to the local authority for a licence to sell agricultural and horticultural poisons.

THEFT.—The premises of Parson C. Baker, Ltd., chemists, Victoria Street, London, S.W., were broken into on April 8. Among the articles stolen were small quantities of "dangerous" drugs.

BRADFORD APPRENTICESHIP SCHEME.—Bradford Juvenile Employment Committee recently received a deputation from the Bradford Branch of the Pharmaceutical Society, who submitted a proposed apprenticeship scheme based largely on the scheme now operating in Leeds. A joint subcommittee of the two bodies was appointed.

GLASS CONVENTION.—The British glass industry is holding its third Convention at Buxton from May 18 to May 20. Sir Max Bonn will preside. A brochure giving full details can be obtained shortly from the secretary of the Convention, Mr. Geoffrey Marchand, Norwich House, 13 Southampton Street, High Holborn, London, W.C.1.

SPORTING EVENTS.—The Ipswich Chemists' Hockey Club met the R.A.F. team from Martlesham on March 29, losing 5—1. On April 5 they met Ridley's team, and after a strenuous game lost 7—2. A very successful dance was held by the Club on April 5, when about 150 members and their friends spent an enjoyable evening. Among those present were Mr. L. Piper (president), Mr. F. W. Wiggin (secretary), and Mr. E. A. Hammond (vice-captain).

HUDDERSFIELD CHEMICAL INDUSTRY.—The Huddersfield borough analyst (Dr. L. G. Paul) recently gave a lecture to the local section of the Society of Dyers and Colourists on "Early Pioneers of the Huddersfield Chemical Industry." Among notable chemists engaged in the dyeing industry the lecturer mentioned John Nowell (1794-1869), Read Holliday, George Jarman, Dan Dawson (1836-1907), Joe Frost and J. W. Leitch. The real era of development began, Dr. Paul said, after the discovery of the coal-tar colours.

IN THE COURTS.—In the King's Bench Division of the High Court, London, on April 6, Mr. Justice Swift entered judgment for £90 in favour of Mr. Eugene Szekely, Yale Court, Hampstead, N.W., who claimed £129 commission, on sales of flapjacks, from Mr. Henry Jellinek, Oxford Street, W.1. It was stated that flapjacks were sold at 10s. 6d. each to wholesalers, 13s. 9d. each to retailers, and £1 each to the public. Mr. Jellinek counterclaimed, and the amount of the counterclaim was agreed at £12. His lordship held that all the orders except that by Taylors Drug Co., Ltd., were obtained through Mr. Szekely.

Scottish Notes

Brevities

A. de St. Dalmas & Co., Ltd., Leicester, have appointed Mr. George Dowie, chemist and druggist, their Scottish representative in succession to Mr. W. McCaw-Smith, who now represents them in Ireland.

The next competition for the Scottish Chemists' Golf Trophy will be held over the Gleneagles golf course on May 3. Players intending to be present are requested to forward their names and handicaps from all clubs of which they are members, with entry money of 2s. 6d., to the secretary, Mr. J. Finlay, 302 Morningside Road, Edinburgh, before April 26. They should state whether wholesale or retail and about what time they will arrive at the course.

Irish Notes

Legislation in the Irish Free State

In the Dail, on April 7, the President moved that the Dail approve of the International Convention for limiting the manufacture and regulating the distribution of narcotic drugs and the Protocol of Signature signed at Geneva in 1931, recommending the Executive Council to take the necessary steps to accede to the Convention and Protocol. The motion was agreed to. The President thought it desirable that even a country not directly affected should accept the Convention. The law at present here was insufficient to deal with the drug question, and it was proposed to introduce a complete code of laws embodying in a single statute not only the Dangerous Drugs Act of 1920, but the Conventions of 1925 and 1931. The proposed Bill, he added, was being drafted.

Obtaining Morphine

At Belfast, on April 5, Mrs. Dorothy Meehan (27), housekeeper to a doctor, was charged on four counts with procuring morphine on various dates. Dr. J. V. Mills, prosecuting for the Home Office, said the Pharmaceutical Society's Inspector discovered in his examinations that large quantities of morphine were being supplied from chemists in the city from what purported to be prescriptions of Dr. Boyd, of Great Victoria Street. It had been found that during the past six months the defendant procured 630 gr. of morphine—260 from Messrs. Grattan's, 230 from Mr. T. J. Eglinton, and 140 from Mr. H. McRoberts. All the prescriptions, it was alleged, bore a signature purporting to be Dr. Boyd's, and which was probably done by tracing on a carbon copy. Mr. N. Tughan, who appeared for the defendant, entered a plea of "Guilty." The strange part was that during the time the defendant was in the employment of Dr. Boyd he had not the slightest idea she was using this drug. Had he known, he would have taken immediate steps to put a stop to it. Dr. John Boyd, in evidence, said he was endeavouring to bring about a cure. Dr. Mills: Do you tell the Court that a person could take almost 4 gr. a day, eight times more than the medical dose, and you would not notice it?—I think it is quite possible she was taking it. In sentencing the accused to six months' imprisonment (concurrent) on each summons, Mr. Toppin, R.M., said it was a very serious case. Notice of appeal against the sentence was given.

Coming Events

Wednesday, April 19

Guild of Public Pharmacists, at 17 Bloomsbury Square, London, W.C.1, at 7.30 p.m. Annual meeting. Presidential address by Mr. A. E. Andrews.

Thursday, April 20

North-East and East London Pharmaceutical Association, St. John's Institute, Urswick Road, Hackney, at 5 p.m. Lantern lecture on "Activities of the Society," by Mr. F. W. Adams.

The Pharmacy and Poisons Bill

Second Reading in the House of Commons

The Pharmacy and Poisons Bill, 1933, received its second reading in the House of Commons on April 10. The official report of the proceedings includes the following:—

Mr. Michael Beaumont: I want very shortly to enter a protest at this Bill being taken at the end of a long sitting. It is an important Bill about which there is a considerable amount of feeling. It raises points which should be discussed in the House, but it is obviously impossible, at this late hour, to detain the House for the purpose of entering into a minor though important matter. I hope that the Government will not make a habit of bringing forward, at this time of the night, Bills of this kind, raising minor points on which some of us feel strongly, without giving us a proper opportunity for discussing them.

Question put, and agreed to.

Bill read a Second time, and committed to a Standing Committee.

By an Eyewitness

A thoughtful Government had so arranged its business in the House of Commons as to be more or less in harmony with my requirements; I went there, my day's work done, quite prepared for an all-night sitting on our heart-searching Pharmacy Bill. Alas! I was expecting too much, as all the fireworks had been let off on something else before sundown. But they gave me a nice seat in a cosy corner underneath the arches, where I settled down patiently to hear all about housing somewhere beyond the Tweed. The accent was

O.K.: I could even smell the heather; which kept me wide-awake, though several worthy members succumbed to the pleasing function of resting their eyes or dreaming of salmon fishing up North. The housing went through with a bumper Government majority, so it looked long odds on Pharmacy, anyway. Our little Bill, however, still tarried; for the Lords had umpteen amendments on transport, and Mr. Chairman reeled off figures as though they were logarithms with a voice wanting in rhythm, which depressed our palpitating hearts. Then another Bill stalked through the House to swallow more time, until at last Mr. Speaker returned with a smile of encouragement.

The stage was thus set for Pharmacy: we grew excited, for it had just passed the witching hour of midnight. There in trembling expectancy sat our president, three past-presidents, a chairman of committee, the secretary and our old champion, Mr. William Bennett. How anxious they all seemed! Would someone blaze the trail to save Great Britain from this Bill? Our blood pressure took a downward curve, for members trooped out of the House and it looked as if our hopes would fade away once again. Then, suddenly, arose a secretary, who soothingly murmured "Pharmacy and Poisons Bill, second reading," and very soon the still morning air quivered with "Agreed." It was all over—time occupied, one minute forty-six and a half seconds, and the House became absorbed in looking after "Children and Young Persons." Pharmacy had greeted the dawn: we all said so, and our president, past-presidents and secretary vanished into the lobby with faces all smiles. I chuckled just a little, for the mountain of difficulty had melted away in less than two minutes. Isn't legislation wonderful?

Topical Reflections

By Xrayser

Your Price List,

in its changed form, appeals to me in a greater degree than ever as a guide to buying and selling prices. It has always commended itself as being something superior to anything else of the kind, and the rearrangement on sectionalising lines now adds to its utility. Adaptation to the new British Pharmacopœia and extension of prescription-pricing to include new requirements of modern therapy and diagnosis also mean a lot to the up-to-date pharmacist. Let us hope that he will not only recognise this, but do so in the only manner of really practical value, i.e., by making a point of adhering to standard prices on every occasion, and marking prescriptions in such a way that others who may have to dispense them later shall be in no doubt as to what ought to be charged without raising doubt in the customer's mind. There is need of greater accord among official pharmacists with regard to what they charge for their services and what they supply, if only because of the desirability of establishing confidence in the public mind respecting the value of what we do for them.

Inaccurate Terminology

is a marked weakness of the pharmacy of to-day, and I am glad indeed to observe the pertinacity with which you protest against anything of this nature that may react upon the pharmaceutical position. Just as a drug may be a comparatively innocuous substance, far from meriting condemnation by popular novelists as something to be spoken of only with bated breath, so may a substance capable of producing narcotic

effects be of such utility when administered under proper conditions that it is the height of absurdity to describe it as a dangerous drug. For this reason I welcome your protest against encouragement by the Pharmaceutical Council of improper use of the word "dangerous" in this connection (*C. & D.*, April 8, p. 391). The trouble is that it is so easy to fall into the habit of misdescription in instances such as those to which you have directed attention. What may be forgiven in the case of ordinary mortals, however, is inexcusable on the part of those to whom we look for light and guidance.

Financial Statements

issued by public bodies do not err usually by making it too clear how the money has been spent during the period covered, and I must confess to inability to comprehend exactly how or why the Pharmaceutical Society should have spent some £60,000 during the past year (*C. & D.*, April 8, p. 394). I may be told that the expenditure is set out under a number of different heads, but such an arrangement is simply one of the elementary moves in any game of the kind. One can dwell upon the figures set out under the different headings, and wonder why they should be so high in particular instances; but insight to explain such points always seems to be lacking, and the only way to solve problems of this kind is apparently to ask questions on the subject at the Society's annual meeting. Meanwhile the fact remains that the Society's expenditure for the past year amounted to a total equivalent to nearly £4 per member, and that what each member contributed towards that amount was much less than half.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office

WILLIAMS (CASH CHEMISTS), LTD. (P.C.).—Capital £4,000. Objects: To carry on the business of chemists, druggists, etc. R.O.: 5 Carlisle Avenue, E.C.3.

LUTONS CHEMISTS, LTD. (P.C.).—Capital £500. Objects: To acquire the business of a chemist now carried on by Luty Wells at 7 High Street, Yiewsley, Middlesex.

OLIVERS CHEMISTS, LTD. (P.C.).—Capital £100. Objects: To carry on the business of manufacturing chemists, druggists, etc. R.O.: 44 Watlin Avenue, Burnt Oak.

MEDOSWETE PRODUCTS, LTD. (P.C.).—Capital £100. Objects: To carry on the business of manufacturers and distributors of spices, drugs, etc. R.O.: Brown Edge, Kew, Southport.

TONERY LESLIE, LTD. (P.C.).—Capital £100. Objects: To carry on the business of chemists and druggists, opticians, dentists, etc. R.O.: 28 Warwick Street, Worthing.

DAY, SON AND HEWITT (IRELAND), LTD. (P.C.).—Registered in Dublin. Capital £2,000. Objects: To carry on the business of manufacturers of all kinds of sheep dips, etc.

GEORGE & WILLIAM HARGREAVES, LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of soap and chemical manufacturers, etc. R.O.: 41 North John Street, Liverpool.

PATENTS & PROPRIETARIES, LTD. (P.C.).—Capital £2,000. Objects: To acquire and turn to account secret processes, trade marks, patents, and sale of medicinal and other preparations, etc.

W. T. HEY AND SON, LTD. (P.C.).—Capital £5,000. Objects: To acquire the business of chemists and druggists jointly owned by Arthur Hey and Herbert Hey at 4 Low Ousegate, York.

BLACKPOOL PHARMACY, LTD. (P.C.).—Registered in Dublin. Capital £500. Objects to carry on the business of chemists and druggists, etc. Secretary: Joseph Byrne, 16 Watercourse Road, Cork.

T. HAIGH CONNOR, LTD. (P.C.).—Capital £2,000. Objects: To carry on the business of consulting, analytical, manufacturing, pharmaceutical and general chemists, etc. R.O.: 16 Scot Lane, Doncaster.

AUG. & GEO. FISCHER, LTD. (P.C.).—Capital £5,000. Objects: To carry on the business of dealers in drugs, gums, spices, essential oils and other essences, oils, etc. R.O.: 22-3 Great Tower Street, London, E.C.3.

HERBAL PREPARATIONS, LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of manufacturers, importers and exporters of all kinds of herbal foods, medicines, etc. R.O.: 4 College Square North, Belfast.

PARKERS CHEMISTS, LTD. (P.C.).—Capital £2,000. Objects: To acquire the business of a chemist and druggist carried on by Reginald E. W. Parker at 32 Hertford Street and 1 Holyhead Road, Coventry. R.O.: 32 Hertford Street, Coventry.

BATTLE, HAYWARD AND BOWER, LTD. (P.C.).—Capital £15,000. Objects: To acquire the business of manufacturers of sheep dips, disinfectants, weed killers, cattle medicines, etc., carried on at Victoria Chemical Works, Newark Road, Lincoln, as "Battle, Hayward and Bower."

SCOLITE, LTD. (P.C.).—Capital £5,000. Objects: To acquire the business of Harry Scholey, carried on at 91 Victoria Street, London, S.W.1, and to carry on the business of manufacturers of and dealers in synthetic resin products and urea powders of all kinds, varnishes, enamels, polishes, lacquers, etc.

Voluntary Liquidations

Paros (Chemists) Ltd., 12 Kimberley Parade, Woodhouse Lane, North Finchley, London. The statutory meeting of creditors was held recently at Winchester House, London, E.C., when the statement of affairs showed liabilities of £1,150 19s. 11d. The assets consisted of cash at bank, 2s. 6d.; sundry debtors, £22; stock, £259 17s. 10d., put down at £100, and fixtures and fittings £253 2s. 11d., estimated to realise £25, making a total of £147 2s. 6d. After allowing £117 10s. for preferential claims the net assets were £29 12s. 6d., or a deficiency of £1,121 7s. 5d. According to a profit and loss account prepared from May 1, 1931, to March 24, 1933, the purchases had been £1,983; the sales were £2,299; there was a gross profit of £575, and a net loss of £756. It was reported that the company was incorporated in April, 1931, with a share capital of £100. An offer was made of a composition of 2s. 6d. in the £, payable within a month. Eventually a resolution was passed confirming the appointment of Mr. Black, of Messrs. Jeston, Black & Co., C.A., 5 Finsbury Square, London, E.C.2, as liquidator, with a committee of inspection.

Laws The Chemists Ltd., Central Station, Birkenhead. The creditors met recently at the office of Messrs. Lloyd and Walker, Liverpool, when the statement of affairs showed liabilities of £960 15s., due to unsecured creditors. The assets consisted of cash in hand £7 16s. 1d., stock in trade £130, and fittings, fixtures and utensils, etc., £448 1s. 10d., put down at £100, making a total of £237 16s. 1d. After allowing £58 13s. for preferential claims the net assets were £179 3s. 1d., or a deficiency of £781 11s. 11d. The company was registered in March, 1924, with an issued capital of £500. During the year to March, 1930, the turnover was £2,995, with a net loss of £92. In the following twelve months the turnover was £2,962, with a net loss of £37. The turnover declined in the succeeding year to £2,005, with a net loss of £57. During the twelve months to March 31 last the turnover was £1,593, and there was a net loss of £145. It was pointed out that since March, 1927, there had been losses on the trading totalling rather more than £600. The deficiency in the statement of affairs was due to the losses on the trading, together with the depreciation written off the assets. Resolutions were passed confirming the voluntary liquidation of the company, with Mr. E. J. Walker as liquidator. A committee was also appointed.

Private Arrangement

Ernest Walden, 117 Crossbrook Street, Cheshunt, Herts, herbalist. A meeting of the creditors was held recently at Waltham Cross, when it was stated that the liabilities amounted to £179, of which £100 was due to the trade. The assets consisted of stock, fixtures and fittings, estimated to realise £120, and household furniture, put down at £10. It was stated that the debtor commenced business on his own account six years ago, with a capital of £500. He paid £400 for the business. The debtor admitted that he had been aware of his position for eighteen months, but continued to trade, hoping that business would improve. It was decided that a deed of assignment should be executed to Mr. Parkin S. Booth, Kimberley House, Holborn Viaduct, London, E.C., as trustee, and the creditors intimated that they would be prepared to accept a composition of 6s. 8d. in the £ in settlement of their claims.

Gazette

Partnership Dissolved

SCHLIMME, HENRIETTA, BECK, W. A. G., and SCHLUTT, JUDY M. A., 38 Moreland Street, London, E.C.1, perfumers, etc., under the style of Gustav Boehm, so far as concerns J. M. A. Schlutt.

Proprietary Articles Trade Association

Council Meeting

A MEETING of the Council of the Proprietary Articles Trade Association was held at the Russell Hotel on April 6, the president (Mr. W. L. Edwards) in the chair.

Before the commencement of business, the PRESIDENT referred to the loss which the Association and Council had sustained through the death of Mr. R. Feaver Clarke, who had been a member of the Council for over twenty-five years and had held office as vice-president and member of the Executive Committee.

Mr. ROWSELL paid a warm tribute to Mr. Clarke, with whom he had been closely associated. Tributes were also paid by Messrs. Ratcliffe, Pickard and Birks. A resolution of sympathy with the family of Mr. Feaver Clarke was passed in silence.

The Council considered and adopted the report of the Executive Committee. A form of wording was adopted for use by manufacturers and wholesalers on all invoices which include P.A.T.A. articles.

The Council considered the question that manufacturers and wholesalers be requested to withhold from certain price-cutters whose names appear on the Stop List supplies not only of articles which are on the Protected List, but of all goods which such stop-listed traders might order. It was reported that eminent legal opinion had been obtained as to the propriety of adopting such a course. The Council authorised the taking of such action in this connection as the circumstances required. The Council approved the adoption of forms of agreement designed for completion by wholesalers as a condition of removal from the Stop List, or in appropriate cases as a condition of their being permitted to receive supplies of P.A.T.A. goods for distribution by wholesale. These agreements provide for the payment of a sum to the Association for each breach as liquidated damages. The Council formally approved the action of the Executive Committee in authorising the publication in the "Anti-Cutting Record" of the names of those traders connected with pharmacy and the drug trade who are included in the Association's Stop List. It was reported that during the past quarter agreements involving the payment of liquidated damages had been signed by twenty-five retailers as a condition of the removal of their names from the Stop List.

The Council considered the suggestion made by the Executive of the National Pharmaceutical Union that the surplus stock bureau of the Union be utilised for assisting members to dispose of surplus stocks of P.A.T.A. goods on a "give-and-take" exchange basis. The Council agreed that if the necessary precautions were taken to ensure prevention of abuse there would be no objection, from the P.A.T.A. point of view, to the operation of the scheme. The quarterly report on the anti-cutting and investigation activities of the Association was submitted by the secretary. The report was approved.

Annual Meeting

The thirty-seventh annual meeting of the Association was held at the Russell Hotel on April 6, the president (Mr. W. L. Edwards) in the chair.

ANNUAL REPORT

The following is an abstract of the thirty-seventh annual report:—

Although in 1932 the depressed trading conditions which were so prevalent throughout the preceding year showed little sign of improvement, the membership, income and general position of the Association were maintained at a level which, under the circumstances, may be regarded as satisfactory. Manufacturers who have articles on the Protected List now number 398. There are now fifty-eight members of the wholesale section. It will be recalled that two years ago the Council laid down more stringent conditions in connection with election to membership of this Section, and this factor has had a

direct bearing on the admission of new members. Membership of the Retail Section has again increased. Last year, subscriptions were paid in respect of 9,137 shops. This steady increase in retail membership is a satisfactory feature of the Association's progress during recent years. For their work in collecting subscriptions and securing new retail members, special thanks are due to the Executive and secretary of the National Pharmaceutical Union.

The widespread depression in trade which characterised the year accentuated the difficulties encountered by the Association in carrying out its price-maintenance functions. Price cutting is always more prevalent when general trading conditions are bad than in times of prosperity. In the earlier part of the year the serious increase in price cutting among traders outside pharmacy, and the apparent ease with which they were able to obtain supplies of price-protected articles in spite of Stop List restrictions and the efforts made in various directions by the Association, caused the Council great anxiety. The Council in April felt compelled to impose new conditions upon manufacturer and wholesale members of the Association. The Council also decided to convene a meeting of retail delegates in order that representative pharmacists from all parts of the country could be made acquainted with the position, and with the Council's proposals for dealing with existing difficulties. This Conference was held in London in June, and was attended by 150 delegates. In July the Council passed a rule enabling them to remove from the Protected List, at their absolute discretion, any article the retention of which would be, in their opinion, prejudicial to the interests of the Association or of any class of its members. Towards the end of the year, as a result of the closer co-operation extended by manufacturers and wholesalers, and the increased activities of the Association's staff, it became evident that the cutters and their agents were experiencing greater difficulty in obtaining supplies. It is hoped that the position will have been materially improved by the end of the present year. Whilst price cutting by non-chemist retailers has been a source of trouble, the Council think it advisable to emphasise, once again, that the Association's system of price-maintenance continues to operate with remarkable efficiency throughout the drug trade. It is no small achievement that during a period of unexampled depression the protected prices of the products of some 400 manufacturer-members of the Association have been uniformly maintained by retail chemists, multiple-shop proprietors and departmental stores throughout the country.

The Executive Committee, in consultation with Mr. Wilfrid Green, K.C., Sir Stafford Cripps, K.C., M.P., and Mr. H. Glyn-Jones, devoted the closest attention to the task of framing rules which would place the Association in a position to enforce, with the greatest possible efficiency, its price-maintenance policy. The revised constitution and rules . . . came into force on January 1, 1933. During the year, 7,000 separate purchases of articles on the Protected List were made from price-cutters, and in nearly 3,000 instances the coding system adopted by manufacturers or wholesalers enabled the cutters' source of supply to be traced and closed. It is worth recording that during the year the Association, for the first time in its history, took steps to enforce its price-maintenance agreement in the High Court. In addition to the loss of Mr. [D. M.] Watson, the Council regret to record the loss of Mr. Cyril H. Kirby, who had been solicitor to the Association from the date of its formation, and desire to place on record their appreciation of Mr. Kirby's valuable services over so long a period.

The income and expenditure account appended to the report shows total receipts amounting to £9,347, of which £8,316 represents subscriptions and £662 donations. The principal items of expenditure are:—Salaries (office), £3,100; investigation of cutting, £1,905; "Anti-Cutting Record" and "Year Book," £292; councillors' expenses, £1,106; conference expenses, £300; rent and rates, £408; printing and stationery, £501; postages, £434 (shillings and pence are omitted from this abstract). The balance of income over expenditure is £433.

DISCUSSION

In moving the adoption of the annual report, the PRESIDENT said that not only pharmacy and the drug trade but all sections of the industrial community had been passing through a difficult and depressing time. He thought that members of this Association should congratulate themselves upon the fact that throughout this period of stress the P.A.T.A. had maintained itself at so satisfactory a level. With regard to membership, there were no startling changes to report. The retail chemists of the country owed more than they realised to the work of the Association, and there should not

be one man in business on his own account who was not a member of the Section. The one real trouble the Association had to contend with was price cutting. There was a time last year when the Council thought that the cutting was getting the better of the organisation. There were definite signs that the position was easier, and that the cutters and the agents who supply them were having a very much more difficult time than they anticipated; numerous cutting shops had been closed down. The improved conditions were due to the energetic steps taken during the course of the past year to tighten up and improve the Association's powers and machinery. The Council had taken powers to deal effectively with members of any section of the Association who were not co-operating in price-maintenance work, or whose continued membership was prejudicial to the best interests of the Association. A lesson had been taught to those who might feel inclined to ignore the price-maintenance contracts into which they had entered. He would like to express a word of appreciation to those manufacturers and wholesalers who co-operated with the Association by coding and inter-coding the goods supplied to their customers. Unfortunately, too many firms seemed prepared to leave to other and more willing members the burden and expense of this work. The Association's finances remained in a satisfactory state. There was a balance on the right side, though owing to increased expenses it was not so large as in former years. If increased contributions were required from any section he was sure that they would be forthcoming.

MR. ROWSELL seconded the adoption of the report and was supported by MR. PICKARD, MR. WATSON and MR. HIGGS. MR. SKUES (Pattersea) said that he would like to associate himself with much that had been said, but would reiterate the warning that the continued success of the Association would depend upon increased efficiency. The president had stated that there had been a period last year when the Council wondered whether cutters had got the upper hand; that view was shared by a number of retailers who, out of loyalty to the P.A.T.A., had not sought to make its task more difficult. They realised that sales at cut prices must occur; no price-protection organisation could avoid that. They thought, however, that those cutters who had been in business for years and had persistently flouted the regulations had made the matter much more serious, and it seemed to those outside the Council that something more effective might be done.

Votes of thanks to the secretary and staff for their services during the past year were passed and acknowledged. The proceedings terminated with a vote of thanks to the chairman.

Association Meetings

Belfast.—The monthly meeting of the Executive Committee of the Ulster Retail Drug Trade Association was held in Belfast on April 4, the president (Mr. S. J. Hudson) in the chair. Mr. W. E. Wilson, an ex-president of the Association, wrote intimating that, as he had retired from active business, according to the rules of the Association he ceased to be a member, and therefore formally tendered his resignation. Expressions of regret at his resignation and well-deserved tributes to his worth were expressed by the members, and on the proposition of Mr. Abernethy, seconded by Mr. Macauley, it was unanimously agreed that appreciation of Mr. Wilson's valuable services be placed on record, and the secretary was directed to convey to Mr. Wilson the sentiments of the members of the Committee. Mr. Adams, Mr. Culbert and Mr. Dundee were appointed a subcommittee to collaborate with the other interested parties in the revision of the Hospitals' Pharmacopeia. The recommendation from the annual general meeting that the period of apprenticeship be extended to five years was considered, and it was agreed that a letter be forwarded to the Pharmaceutical Society of Northern Ireland setting out the views of the Committee and requesting the counsel and collaboration of the Society.

With reference to the incorporation of the Association a subcommittee consisting of the president, secretaries, Mr. Culbert and Mr. James McDowell was appointed to collate information and report. Price alterations were considered and passed, and accounts certified for payment. The newly elected president (Mr. S. J. Hudson) entertained the members to tea, and at the conclusion of the meeting a vote of thanks for his hospitality, proposed by Mr. Linehan and seconded by Mr. Tate, was passed by acclamation.

Bradford.—A meeting of the local branch of the Photographic Dealers' Association was held on April 6 to hear an address by Mr. H. Mottershaw, Sheffield, member of the National Council. Mr. A. T. Bailes presided. Mr. Mottershaw outlined recent activities of the Council and developments in the important matter of regulation of new accounts. An important need of the moment was to remove a good deal of confusion still existing between the P.D.A. list and the Approved Dealers' list, originally issued by the Joint Council and need for revision of which was recognised. It was to be hoped that the time was not far distant when there would be a much more effective means of regulating the matter of casual film dealers, and he felt confident that that type of trader would eventually be placed under proper jurisdiction of a genuine dealer in the locality. Manufacturers were pestered constantly by people wanting to open new accounts for film sale and developing and printing work only, though with no desire to become real dealers and help to develop the camera and photographic trade as a whole. Turning to the vexed question of branch shops, Mr. Mottershaw said there was not the control over these which it was thought desirable, but every man who was an approved dealer already felt, naturally enough, that he should have a right to sell from a branch shop, if he chose to open one, without interference by other dealers who happened to be in the locality concerned. Until the problem of multiple stores was fully settled it was difficult to see how anything very definite could be done on the general problem of branches. Quite an important and awkward problem, proceeded the speaker, was that of the position of young chemists opening new businesses. There was a steady stream of young men wishing to embark on business for themselves, and it was questionable as to how far existing photographic dealers had any right to put obstacles in their way solely on the ground of proximity. The P.D.A. had had representations on this matter from the National Pharmaceutical Union, and it was certainly a matter on which a good deal of serious thought would have to be given. Mr. Mottershaw said he regarded D. and P. work and the price-cutting menace as the most serious problems facing the trade at present, and although manufacturers contended that as paper producers they had no responsibility in the matter of service charges, he would suggest they had both a moral and a practical obligation to concern themselves in the fight against price-cutting. It was little use the manufacturers putting in a mass of intensive research, producing "chrome" films and high-grade papers if they were then to be content to allow the "finishing" to be done by anybody who thought of price rather than quality. Probably the finest development in the anti-cutting fight, up to date, was the system of signed agreements between dealers and finishers—a system which had originated and been developed with great success at Brighton and was now spreading through the P.D.A. branches. In conclusion, Mr. Mottershaw urged more dealers to take up cine-photography, so that the business would not pass into the hands of other trades, which eventually might take a large share of other photographic business also. Dealers should make themselves familiar with processes and apparatus and cultivate a similar knowledge among their assistants. During the discussion Mr. A. T. Bailes mentioned that the Committee in Bradford, in making recommendations as to new accounts, considered only the locality rather than the individuality of the applicant. It was a question of desire for equitable distribution of service rather than any kind of personal bias. Mr. W. Sutcliffe suggested that some general guidance from the central Council to branches as to policy in dealing with new chemists would

be extremely helpful. Mr. Mottershaw hoped the Bradford branch would raise a discussion on the point at the forthcoming annual meeting of the P.D.A.

Edinburgh.—The annual meeting of the fifty-fifth session of the Edinburgh Chemists', Assistants' and Apprentices' Association was held at 36 York Place, Edinburgh, on April 5, Mr. J. J. Blackie (president) in the chair. Mr. A. Henderson gave a practical demonstration on *Hydrogen-Ion Concentration*. He explained that to understand the matter fully required familiarity with the use of logarithms. The PH value was based on the theory of electrolytic dissociation. In point of accuracy the electrometric method was by far the better. The saving grace of the B.P. method was that it is very convenient, but at the same time the human element had to be considered. One person might think that two given colours matched, and another might think differently. Using dilute solution of ammonium acetate, the lecturer illustrated the use of various test indicators and explained the action of buffer solutions. On the motion of the chairman, a cordial vote of thanks was awarded to Mr. Henderson. Mr. Eric Knott (secretary) submitted the annual report, recording a highly successful session; and the treasurer (Mr. F. J. Jackson) submitted the financial statement, showing a balance of £9. The reports were adopted, and it was agreed to make a donation of £1 rs. to the Benevolent Fund of the Pharmaceutical Society. The following were elected office-bearers for next session:—*President*, Mr. W. A. Beattie; *Secretary*, Mr. W. Latimer, 94 Morningside Road, Edinburgh; *Committee*, Misses Ritchie and Sutherland, Messrs. Arthur, Collins, Ferguson, Henderson, Herd, Houston, Kay and Stout. *Prize Committee*, Messrs. H. W. Blair, A. Currie and H. Stout. Mr. F. J. Jackson is the new *Vice-President*. A cordial vote of thanks was accorded to the retiring office-bearers.

Festivities

Dance at Norwich

NORWICH chemists held a successful dance in aid of the Pharmaceutical Society's Benevolent Fund at the Regent Theatre recently. Over 100 danced, and Mr. F. J. Cook was M.C. Mrs. J. C. Davies, wife of the president, presented prizes given by wholesale houses. At supper each lady was presented with an Innox beauty outfit.

Devon Dinner

PHARMACY in Devon was well represented at the annual dinner of the Exeter and District Branch of the Pharmaceutical Society at the Royal Clarence Hotel, Exeter, on April 5. Mr. I. R. Phillips (Axminster) presided, and the arrangements were in the hands of the joint secretaries (Mr. F. Southerden and Mr. A. C. Milton). Mr. B. L. Thomas (Clerk to the Devon Insurance Committee) submitted "The Pharmaceutical Society of Great Britain" in a delightfully humorous speech. Mr. Thomas Hardy (a member of the Society's Council) replied. The chief aim of the Society, said Mr. Hardy, had always been the protection of the public. Referring to the Pharmacy and Poisons Bill, Mr. Hardy said there would be important changes. The Bill would involve the appointment of a number of inspectors to see that regulations were carried out, and they would have the right to enter premises. When the Bill became law one advantage would be that chemists would be able to speak with a united voice. Mr. W. A. Burnage submitted "The Visitors" and Mr. W. Chaplin Bennett responded. The chairman, acknowledging the toast to his health, said he was convinced that the private chemist would maintain his position in the future, provided he put his back into the work.

THE CHEMICAL MANUFACTURERS' DIRECTORY.—The sixty-fifth edition of this well-known directory (price 4s. 6d.) has just been issued at 75 Chiswell Street, London, E.C.1. As in previous years, it covers the principal manufacturing houses in Great Britain and Ireland.

Chemists

By a Shopfitter

IN the course of many years' experience the task of fitting up hundreds of chemists' shops has passed through my hands; and, on contemplating, I am led to wonder if the thousand and one whims and vagaries of the proprietors are duplicated in other trades. Can, for example, there be another well-meaning individual in, say, the grocery or confectionery line who would have beckoned to me on our stand at a trade exhibition, while I was busily engaged in pointing out the merits of our showcases to a serious-looking inquirer, and on begging my absence from the latter for a few moments would have greeted me with the astounding remark: "I do not wish to buy anything, but from thirty years' experience I think you ought to know that all wall fittings should stand eight feet two and a quarter inches high. Good day!"? Could, I wonder, anyone but a chemist have devised the brilliance of such a comment at such a time? Then again, what about the gentleman who walked into our showroom one afternoon without having had a shave for at least three days, a cracked celluloid collar enhancing his ready-made tie and enormous brass horse-shoe tiepin, his toes literally out of his boots and a damp fag-end hanging on to a bedraggled walrus moustache? As near as anything I told him to go and ask the foreman, thinking he wanted a job, but fortunately an unknown something made me hold my tongue; he asked to see some chemists' fittings and finished up by purchasing them to the tune of £200, paying me £50 there and then in £1 and 10s. Treasury notes. I thanked my stars for the bump of caution.

And then there was the customer for whom we installed a new shop front with premises in a busy back street of a dockyard town. In those days we used to draw money as the job progressed, and while the work was on I went down to collect £100. The shop was full of lascars, negroes, dagoes and every sort and kind of humanity, with our customer and his wife serving hard behind the counter. When he saw me he bawled "Hi, you niggers, get out of the way for a gentleman!" and I elbowed a passage through and told him my request. He replied to the effect that he was far too busy to attend to me, but if I went behind into the kitchen and looked in the table drawer I could take what I wanted. Being very young and quite unused to this sort of proceeding, I thought he was joking until after some minutes he gave the information that unless I "got a move on" I should have to wait all day; so I plucked up courage and into the kitchen I went. I opened the table drawer, and even to this day recall the surprise. Under the knives, forks and spoons, all haphazard and anyhow, was more money than I had ever seen at one time—£100 notes, £50 notes, £1 and 10s. ditto with gold, silver and coppers scattered between. It was an amazing sight, and I must confess that in a strange man's kitchen I felt considerably at a loss. At this moment our customer bustled in to the sink, shouting: "Buck up, boy, don't bother about a receipt, next time 'll do!" and was out like a shot.

Plenty of Loose Cash

There was also the chemist who once had lost some money in a bank smash and consequently did not believe in these institutions any more. He had a special safe with a concrete base built in behind his dispensing screen, and every night emptied his till drawer loose into it. Every traveller that called with an account he paid in coin of the realm, which he shovelled out with a sort of soup ladle. He told me that he didn't know what there was there and hadn't seen the bottom for over twenty years.

We have another customer who wouldn't think of coming out without at least £100 in notes on his person, and yet another who when casually passing sees a business that takes his fancy, goes in and forthwith offers to buy it lock, stock and barrel for cash there and then provided the deal is completed that same day. He has a rough agreement drawn up by a local solicitor, and to

my knowledge a round half-dozen of his offers have been accepted. There is also the old customer who pokes his head round our office door and says: "I have taken another shop at X; same as usual"—and walks out. He has never asked for a sketch, specification or estimate yet. As regards our Irish friends, I could write a volume on them alone which would amaze most of their English brethren.

I could go on almost endlessly describing the strange ways of those who come almost daily to us; but there is, curiously enough, one practically constant fact. The bigger the job, the less trouble I have from my customer. If we undertake a small cut price task it seems inevitable that the customer will fuss, bother and alter his mind any number of times after the work has been started with consequent detriment and delay to the job; whereas in the larger contracts the chemist makes up his mind definitely, gives his order and then leaves me to my part, which is turning him out a shop he will be proud of and which will be a recommendation to my firm, without the necessity of being telephoned or written to daily for reports of progress or suggested amendments and alterations. But, anyway, it's all part of the day's work; and the comparatively few other trades whose work I have to execute leave me more than ever convinced that with all his faults and peculiarities there is no fairer, more honest and straightforward man than the chemist.

Drugs in London Street Market

A REPORT that "dangerous" drugs were on sale recently in a London street market was received with a certain amount of incredulity in pharmaceutical circles. Readers accustomed to being regaled with sensational statements, not infrequently whittled down later to next to nothing, could hardly be expected to believe that even the most unscrupulous or illiterate street trader would be so foolish as to sell articles plainly labelled "Poison."

But in this instance the reports in the non-technical Press were not one whit exaggerated, as inquiries made by a representative of the *C. & D.* quickly proved. The stall at which such articles as preparations of arsenic, hyoscine, morphine hydrochloride and cocaine were on sale for a few pence was not long occupied after its owner had attracted the attention of a newspaper seller, who seized an opportunity of earning a little money by informing his employer. But the street vendor, who was plying his trade in Leather Lane, E.C.4, remained long enough for a journalist to buy sufficient poisonous substances to "kill a roomful of people," to quote an expert to whom they were shown. Threepence a packet was the average price paid, and there was no lack of buyers. It may or may not be significant that all the cocaine had been sold out, but there is no reason to doubt that packets of this had been available for anyone who cared to part with a few coppers.

Whoever else may have been incredulous regarding the allegations in the newspapers, Mr. H. N. Linstead, the secretary of the Pharmaceutical Society of Great Britain, was sufficiently impressed to decide on immediate action. Accordingly an inspector of the Society was dispatched to the street market in question to make inquiries; by that time, however, the vendor of poisons was nowhere to be found, nor was there a trace of any of the dangerous articles which had been on sale the previous day, although the journalist who had bought some still had them in safe keeping, and had taken the precaution of having them photographed. The declaration that drugs of addiction had been sold particularly interested Scotland Yard, and officers accustomed to dealing with the illicit drug traffic were delegated to make inquiries. There is always a certain amount of trading in narcotic drugs, and the police have their own methods of keeping it within bounds; but obviously it would not be wise for them to disclose the details of their discoveries to the

public. Suffice it to say that the cases that come before the Courts from time to time do not represent one-tenth of those which the "drug squad" are called upon to investigate.

An Isolated Instance

As everyone knows, "everything is fish" that falls into the street-trader's net, and the only thing which concerns some, at any rate, of those who get their living by selling articles from stalls in the open air is getting rid of their stock-in-trade without delay. Incidentally, a tour of street markets reveals the amazing extent of the trade done in articles which by right ought never to reach such places. Even the most expensive perfumes, beauty preparations and other proprietary goods, particularly those for toilet use, are to be seen on the stalls, indicating a substantial trade by subterranean channels. The explanation that they are chiefly items of stock bought from bankrupts is not altogether convincing.

The secretary of the Society, discussing the matter, was inclined to attribute the origin of the trouble to the purchase of a bankrupt stock which had belonged to a doctor. He recalled that the last case at all similar was about eight years ago, when compound tincture of chloroform and morphine, B.P., 1914, was offered for sale in Caledonian Market. On that occasion the vendor was prosecuted by the Society. Possibly the true explanation of the Leather Lane case is that the articles sold were the proceeds of one of the many recent thefts from doctors' motor-cars. While in some instances there is no doubt that such articles are stolen unwittingly by persons who have no idea of the value of the goods they take, and almost as little knowledge of their dangerous character, the main purpose of a thief is to realise on his loot. And by the time such things are offered for sale to the public they have largely lost the taint attaching to stolen goods. In the present instance no further sales have been reported, and the view of the police is that any poisons that remained have by this time been destroyed. At the same time the drug section of the Criminal Investigation Department of Scotland Yard has been instructed to keep a close watch on street markets, while the Pharmaceutical Society's officers may be relied upon to be equally vigilant.

Business Changes

MR. A. L. MANTON, chemist and druggist, is opening a business at Meadowhead, Sheffield.

BOOTS, LTD., have acquired the business of Harry Hill, Ltd., chemists, at 7 Eign Street, Hereford.

MR. J. H. LYON, chemist and druggist, is shortly commencing business at 52 Hartington Street, Barrow-in-Furness.

MR. HAROLD M. HIRST, chemist and druggist, has opened the Scalby and Newby Pharmacy, Newby, Scarborough.

MR. J. H. MEYNELL, chemist and druggist, has acquired the business of the late Mr. J. E. Mason, Ph.C., 24 High Street, Bexley.

RICHARDS & CURTIS, LTD., chemists, have acquired new premises at 5A Waln Lane, Willesden Green, London, N.W.2.

THE name of Leslie & Homes, Ltd., chemists, 3A Terminus Road, Littlehampton, has been changed to Ray & Clark, Ltd., as on March 20.

MR. H. F. W. THOMSON, chemist and druggist, F.N.A.O., has opened a branch business at 122 Warren Farm Road, Kingstanding, Birmingham.

THE BRITISH ALUMINIUM CO., LTD., Adelaide House, London, E.C.4, have removed from their Birmingham office and warehouse at 21 Barwick Street to Lawley and Landor Streets. The new telephone number is Aston Cross 5865-6.

Macleans' Model Factory

Notes on a Visit to a New Centre of Manufacturing Activity

THE subject of this brief descriptive article, the new factory of Macleans, Ltd., manufacturing chemists, occupies a convenient corner site of nearly six acres on the Great West Road, at Brentford, Middlesex. The building, as will be seen from our illustration of the exterior, is of modern design, and its appearance is considerably enhanced by its setting in a well-kept garden. The fountain, in the foreground, is an attractive feature which is best appreciated, perhaps, by night, when neon lighting adds to the effect of cascading water. No less striking—and certainly unusual in the average factory—is the entrance hall, a replica of an Adam design. Our illustration gives a fair idea of the decorative motives used, but, being in monochrome, it fails to convey an impression of the delicate colour scheme. From the hall the visitor passes to the various departments connected with the administrative side of the business. These include the board room, directors' rooms, sales department, advertising department, Powers-Samas accounting machine room, export manager's room, etc. In the spacious studio may be seen a varied selection of showcards for the home and export trade. Messrs.

Macleans, it would seem, are out to capture foreign markets, and have in many cases already done so. Before describing the manufacturing plant, it may be appropriate to mention some of the amenities enjoyed by members of the staff. The building in which they work is light and airy, with plenty of windows overlooking the gardens. They have at their disposal dining and recreation rooms, bathrooms, shower baths, library, dance floor, tennis and squash rackets courts. Amateur theatricals are held in the staff canteen, which has a seating capacity of 200 and an excellent stage. For descriptive purposes the manufacturing plant may be divided into three main sections, as follows:—(1) Peroxide tooth-paste; (2) Maclean brand stomach powder; and (3) pharmaceutical and toilet products. The factory is equipped, of course, with an analytical department, where delivery samples and finished products are tested. There are, in fact, two laboratories, one devoted to research and the improvement of established products, and the other to routine testing.

Peroxide Tooth-Paste

The raw materials for the manufacture of Macleans peroxide tooth-paste are introduced into a bucket-type elevator; this raises them to a platform on which is mounted a large high-speed turbine sifter, giving a sifting equivalent of 120 meshes to the inch: this process extracts any extraneous matter. The powders then fall from the sifter into one-ton hoppers, and from the hoppers into receptacles, where the requisite quantities are weighed—and the weights double-checked. The raw materials are then assembled on trucks and conveyed to the battery of three steam-jacketed process pans fitted

with slow-speed agitators. The liquors are raised from a lower floor through pipe lines into charging reservoirs by means of compressed air. After a process lasting about two hours the paste is cooled. It is then dropped through valves into a large horizontal, water-jacketed mixer situated on a lower floor. The next process is milling: for this purpose the paste leaves the horizontal mixer and passes between the rollers of a milling machine, the glomerates, by this means, being broken down. The paste, now in a perfectly smooth condition, passes through a final sieve into containers of 2,000-lb. capacity.

The paste is then blown from the containers by means of compressed air into the hoppers of three filling machines. At this stage the tubes come down from the tube store on gravity rollers, having previously been freed from dust. The operator places the tube on the mandril of the filling machine and a known quantity of paste is introduced by means of a foot-controlled piston. Each filled tube is placed on a travelling cup conveyor, which carries it through an automatic closing machine. This machine double-folds the tube at the end and ejects it on to a conveyor

belt. It is then carried along between two rows of girls, who complete the packing.

Stomach Powder

Macleans brand stomach powder is manufactured from ingredients of the highest quality, including a specially selected and standardised chalk. The raw materials are weighed out and then passed down a chute into a mixing trough which connects with a bucket-type elevator. The mixed powder is then raised to a large Gardner sifting machine, where it passes through a 100-mesh silk sieve. After sifting, the powder falls into an aluminium storage vessel. The filling department is equipped with two Albro vacuum filling machines, which are fed with powder through rubber pipe-lines from the storage tank. The jars are placed on a conveyor, which carries them slowly through a steam-heated tunnel for the purpose of drying off moisture—a good example of Macleans thoroughness. At the end of the tunnel each jar receives a blast of compressed air to remove fragments of glass or any other foreign matter. It is interesting to note that continuous operation of the filling machines is achieved by using a double hopper device. Filling is very rapid, roughly about thirty-six jars on each machine per minute. The jars are finally capped; in this operation the capping machine mounts a plain cap, and then, by pressure, makes a thread to fit the screw on the jar. Labelling—Purdy machines are used—and packing complete the process. In the case of this and all other Macleans products samples from finished batches are sent for analysis, thus establishing a system of control whereby the company's reputation for quality is maintained.



THE MAIN ENTRANCE FROM THE GREAT WEST ROAD



A PORTION OF THE GENERAL OFFICE

Pharmaceutical and Toilet Products

As most chemists know, Messrs. Macleans are specialists in the production of such articles as toilet creams, ointments, pharmaceutical syrups, honey preparations, shaving creams and other everyday lines which, in many cases, the chemist prefers to have manufactured for him. The department dealing with this side of the business is adequately equipped with steam-jacketed pans, mills, homogenisers, filter-presses, stills, etc. A wide range of hair preparations, for which the company has an excellent reputation, is manufactured in this department. Of particular interest is a special apparatus designed for filling hydrogen peroxide. The mixing plant is of stoneware and glass, and the vacuum filling machine is lined throughout with ebonite.

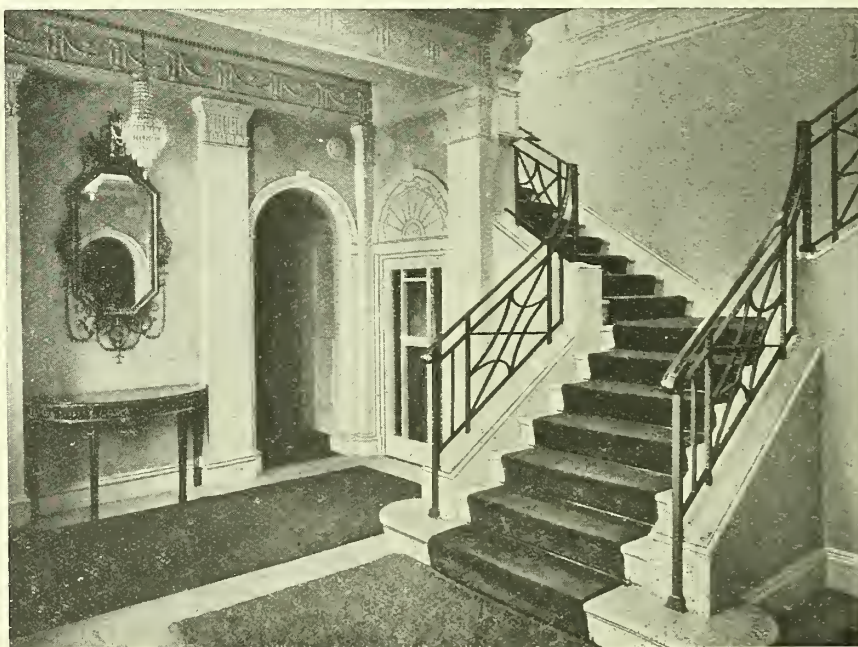
Another interesting process is the enamelling and printing of tubes for vanishing creams, analgesic balm, lanolin, sunburn cream and chemists' own-name tube lines. The plain uncoated tube is mounted on a rod and coated with coloured liquid enamel by a roller. When the coating is dry, the design and the name and address are printed on the enamelled tube by a revolving rubber die. This die is made by setting up the name and address in type, together with line blocks of the design and making from this setting a cement mould. A rubber die is cast from the cement mould. The enamels can be mixed like decorators' paints, to a great variety of shades, and practically any design can be printed on the tubes.

Messrs. Macleans, of course, have a complete and well-equipped printing

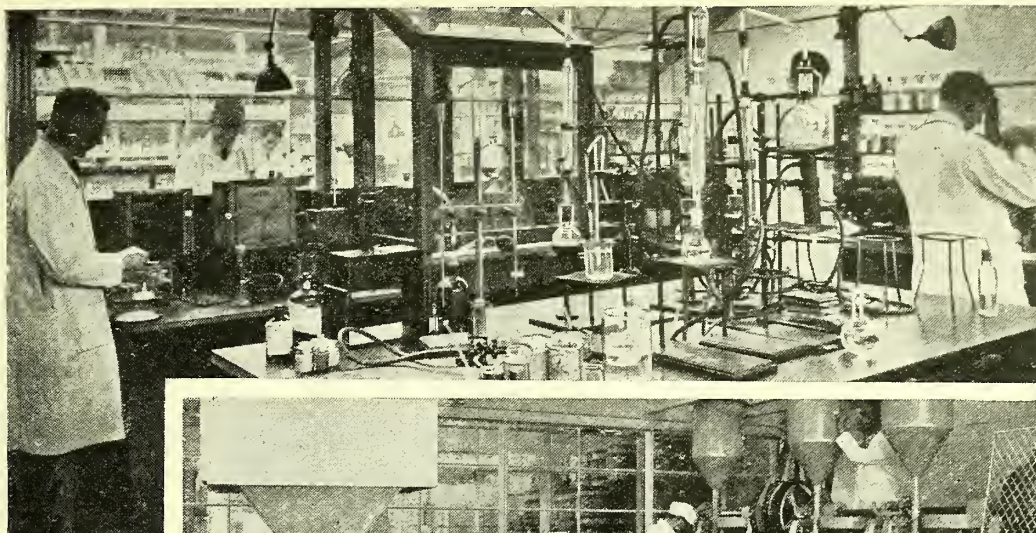
plant, where a wide variety of work is carried out. Not only publicity matter, folders, leaflets and broad-sheets, but more complicated and highly specialised operations, such as the printing and making up of cartons and show-outers, can be successfully completed here. In the experimental section, a constant search goes on for new methods, new colours, and new ideas. Here the chemists' own-name cartons are printed, for there is a complete carton-making plant, which cuts, folds, gums and prints the raw material, turning out a well-finished article. The printing department also handles carton printing and other work in a number of foreign languages, dealing successfully with the many complications which must arise.

Another interesting feature is the dust-extracting plant, by means of which the air in the factory is kept perfectly clean and pure. All operations, such as the filling of stomach-powder bottles, which are likely to give off a cloud of powder into the air, are connected by ducts with a dust-extracting plant, which sucks up the dust and powder and passes the air out purified and clean. The collected dust is taken from the extractor at the end of each day. The advantage of this feature in a factory where large quantities of powders are handled, and where a dust-free atmosphere is essential, is obvious.

We cannot leave this establishment without mentioning the care which seems to be taken to ensure the health and comfort of the workers. Everyone seems to be contented and happy, a fact which augurs well for the future of this interesting business.

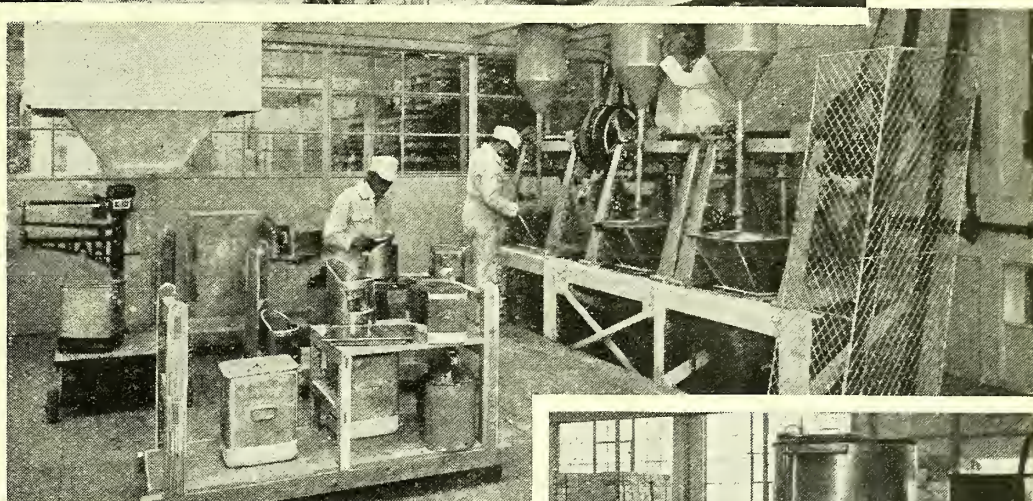


THE ENTRANCE HALL

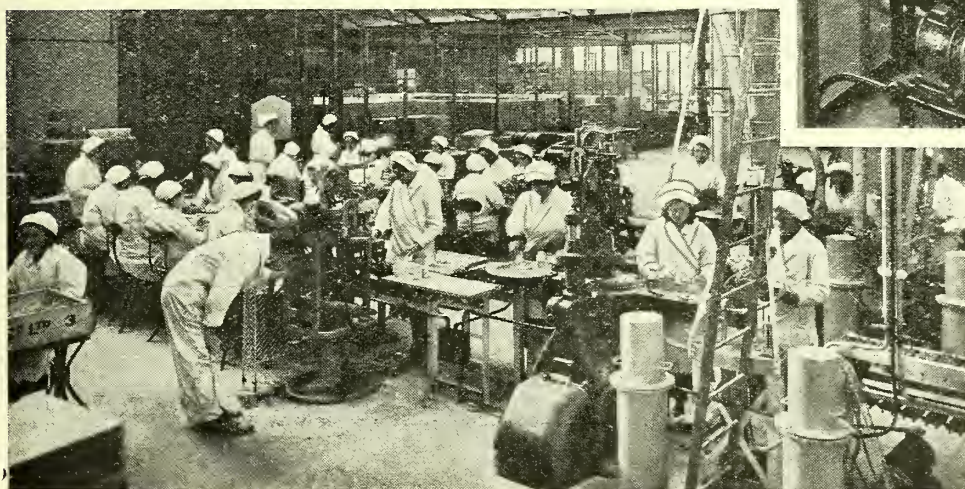


ONE OF
THE
LABORATORIES

MIXING
PEROXIDE
TOOTH-PASTE



PACKING
PEROXIDE
TOOTH-PASTE



FILLING
MACLEAN BRAND
STOMACH POWDER

Births

Notices for insertion in this column must be properly authenticated.

THOMSON.—At 134 Hawthorn Road, Erdington, Birmingham, on April 6, Ethel May, the wife of H. F. W. Thomson, M.P.S., F.N.A.O., of a daughter.

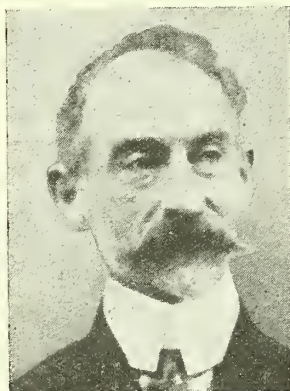
Marriages

BATEMAN—FAWCETT.—At Market Place Methodist Church, Richmond, Yorks, on March 25, Arthur Edward Lionel Bateman, chemist and druggist, to Lorna A. M. Fawcett.

PEARCE—FRANKS.—At St. Nicholas' Congregational Church, Ipswich, on April 1, Norman Brereton Pearce, chemist and druggist, to Miriam E. Franks.

Deaths

MARTINDALE.—At his residence, 22 Chatsworth Road, Brondesbury, London, N.W.2, on April 8, of heart failure after three weeks' illness, Mr. William Harrison Martindale, Ph.D., Ph.C., F.C.S., of 12 New Cavendish Street, W.1, aged fifty-eight. The death of Dr. Martindale at a comparatively early age is a loss to pharmacy for which there is no parallel in recent years, and the sympathy extended to his relatives is deep and sincere. William Harrison Martindale was the elder son of the late Mr. William Martindale, who was president of the Pharmaceutical Society of Great Britain in 1899-1900 and of the British Pharmaceutical Conference in 1891 and 1896.



Dr. W. H. MARTINDALE, Ph.C., F.C.S.

He was educated at University College, London, and at the University of Marburg, where he obtained the doctorate in philosophy with a thesis on corydaline. In 1898 he passed the Minor and Major examinations of the Pharmaceutical Society, following an apprenticeship to the late Mr. C. B. Allen, Ph.C., Kilburn, and experience with Wright, Layman & Umney, Ltd.; on the death of his father in 1902 he took over his manufacturing and retail business, founded in 1873 at 10 New Cavendish Street, W.1, and continued it under the same trading style. He enlarged the scope of the business by transferring the wholesale and manufacturing departments to premises at the back of the shop. From his laboratory there issued during the ensuing years a remarkable succession of new chemical and pharmaceutical preparations, many of them introduced at the direct suggestion of medical friends. Dr. Martindale was one of the first to realise the utility of sealed ampoules, and he took out a trade mark as early as 1904 to safeguard his interests in this field. It eventually became necessary for him to instal his own glass-blowing department. All his life Dr. Martindale was an ardent advocate of the principle "Buy British," even at times when that principle was not so popular as it is to-day. In 1928 the old pharmacy at No. 10 was demolished to make way for a new block of mansion flats with shops; but for sentimental no less than for business reasons (Dr. Martindale was born over the old pharmacy) the site was retained, and a new pharmacy was installed at No. 12. Unfortunately a similar compromise was not possible when the question arose of

moving the works, and the new factory which is now in course of erection was taken some ten minutes' walk from New Cavendish Street. During the years of his business life Dr. Martindale became responsible for ten editions of "The Extra Pharmacopœia," the first ten editions of which had been produced by his father with the collaboration of the late Dr. W. Wynn Westcott, who continued to assist in the work of revision till about ten years ago. Commencing with 313 pages in 1883, this book of reference now comprises two volumes extending in all to about 2,000 pages; it was largely the unceasing research occasioned by successive editions that gave Dr. Martindale his unique position as an authority on the scientific aspects of pharmacy and as a link with the medical profession. The brilliant and amusing "conversations" in THE CHEMIST AND DRUGGIST on recent editions of the "E. P." were written by him, and appeared virtually untouched by editorial revision. There can be no question that the constant and unremitting work at high pressure necessary to the production of Vol. I of the 20th Edition, which appeared in September of last year, was in large measure responsible for the initial breakdown in health which followed soon after its publication. For several years after he succeeded his father at New Cavendish Street he found time to contribute to the proceedings of the British Pharmaceutical Conference; his monographs included "Notes on Radio-activity" (1904-05) and "Pharmacy Notes from Various Parts of the World" (1907). In 1910 he sent us a "Note" on suspensions and solutions of salvarsan (C. & D., 1910, II, 897), and from time to time brief paragraphs from his pen appeared in the medical Press, the last, we believe, being "On the Treatment of Amœbic Dysentery" (1926), in conjunction with Dr. J. Graham Willmore. He was president of the Western (London) Pharmacists' Association in 1907; during his year of office his collection of pharmacy pots was exhibited at a lecture, the coloured slides for which were prepared by the late Mr. S. W. Woolley (afterwards Editor of THE CHEMIST AND DRUGGIST) by the Lumière process, at that time a novelty in this country. At Winchelsea, where he lived for a long period, he served as Mayor, an office held years ago by his father. He was also a Baron of the Cinque Ports. In 1925 he was elected an honorary member of the Philadelphia College of Pharmacy. Dr. Martindale was tall and of distinguished bearing; his visits to our offices were occasions to be remembered, his invariable courtesy imparting a particular charm to his conversation. He has carried on and extended the great tradition left by his father, and for those who knew him his loss is irreparable. Dr. Martindale leaves a widow and a son, Mr. W. H. M. Martindale.

ALEXANDER.—At Ivy Nook, Kelso, on March 31, the wife of Mr. W. M. Alexander, chemist and druggist.

CAIRNS.—In London, on March 17, Mr. Frederick Arthur Cairns, Ph.C., formerly of Clevedon, aged sixty-seven.

Crow.—At his residence at Sea Point, Cape Town, on March 5, Mr. William Edward Crow, Ph.C. Mr. Crow, who was born in 1860, studied in London, and won medals awarded by the Pharmaceutical Society, passing the Minor and Major examinations in 1883. After experience as analytical chemist at the British Hospital in Hong Kong, he went to South Africa in 1899, and took part in the Boer War as a member of the Royal Army Medical Corps. Eventually Mr. Crow settled at Sea Point, Cape Town, and became proprietor of the Round Church pharmacy. He took a deep interest in music and art, and possessed a notable collection of paintings.

FOSTER.—Recently, Dr. C. H. Foster, formerly on the representative staff of Parke, Davis & Co., manufacturing chemists, Beak Street, London, W.1, aged seventy-nine. Dr. Foster was born at Chelsea. At the age of nineteen he went to the United States, where he qualified as a physician, practising for some years in St. Louis. He joined Parke, Davis & Co. in February 1892,

and remained with the firm till November 1921, representing them in many parts of the United Kingdom, and afterwards managing the showroom at Beak Street.

HUGHES.—At Netley Abbey, on March 26, Mr. John Gerard Hughes, chemist and druggist, aged fifty-seven.

MATTHEWS.—At Victoria House, Anson Road, London, N.7, on April 8, the beloved wife of Mr. Chas. W. Matthews, Ph.C., 6 Fortess Road, N.W.5.

MAYHEW.—At Perth, Western Australia, on January 20, Mr. Edward William Mayhew, first president of the Pharmaceutical Council of Western Australia, and registrar of the Council for over thirty years, aged seventy-seven. Details of Mr. Mayhew's career were published in our issue of January 7 (p. 9).

SYMONDS.—At a nursing home, on April 9, suddenly, following an operation, Mr. James Alfred Symonds, M.P.S., "Thistlehurst," Westerfield Road, 16 Upper Brook Street, 55 and 57 Butter Market, Ipswich. Mr. Symonds, who qualified in 1886, carried on business in Ipswich for about forty years.

WESTON.—At his residence at Hove, on April 5, Mr. George Weston, chemist and druggist, aged sixty-nine. Mr. Weston had previously been in business in Parliament Street, Harrogate, for over thirty years.

Personalities

Mr. T. P. DAVIES, chemist and druggist, Belvidere, Llandrindod Wells, has been elected unopposed a member of the local urban council.

ALDERMAN W. G. HUTCHINSON (Hutchinson & Co., manufacturing chemists), Burton-on-Trent, has been appointed a justice of the peace.

Mr. L. A. HOWSE, chemist and druggist (Howse & McGeorge, Ltd., chemists, Nairobi, Kenya Colony), is on a visit to this country and may be addressed c/o Tozer, Kemsley & Millbourn, Ltd., 84 Fenchurch Street, London, E.C.3.

Trade Notes

H. B. STEVENSON & Co., LTD., 10 Pancras Lane, Queen Victoria Street, London, E.C.4, advertise synthetic otto of rose in this issue.

PRUNOL PRODUCTS, LTD., 21 Cockspur Street, London, S.W.1, have a new series of bottle wrappers, supplies of which are available to chemists free on request.

DR. SCHOLL'S KOOL-FOOT arch rest is to be extensively advertised during the summer months. Chemists can obtain supplies through the usual wholesale channels.

KNOLL PRODUCTS.—Pharmaceutical Products, Ltd., Lawrence Road, Tottenham, London, N.15, have been appointed distributors in Great Britain and Ireland for the preparations manufactured by Knoll A.G., Germany. Urgent supplies are obtainable from John Bell and Croyden, 50 Wigmore Street, W.1.

A. BOAKE, ROBERTS & Co., LTD., Carpenters Road, Stratford, London, E.15, are manufacturing a new mould preventive under the name of Abracide. This product is a liquid, its odour and taste are slightly reminiscent of thymol. A leaflet giving suggestions for the use of this product in various industries is obtainable on application.

APOLOGY.—A. Bourjois et Cie, Ltd., 4 Water Lane, London, E.C.4, ask us to convey their apologies to those of their customers whom they have had to disappoint in their orders for the Evening in Paris Easter egg novelty. The demand exceeded all possible estimates. No expense was spared to manufacture further supplies in time, but it is impossible for the factory to meet the demand—evidence of the wonderful popularity of Evening in Paris.

THE report supplied to the Press of the Council meeting of the Pharmaceutical Society of Great Britain held on April 4 contained the interesting item that Mr. J. P. Gilmour, who recently retired from the editorship of "The Pharmaceutical Journal," has in contemplation a book on the history of British pharmacy. A book from Mr. Gilmour's pen, whenever it appears, is sure of a cordial welcome.

Wills

MR. ROBERT FOURACRE, Ph.C., 28 Mountfield Road, Finchley, N., chief pharmacist to the Westminster Hospital, who died on February 12, aged fifty-three, left estate gross value £1,390, with net personalty £1,323.

MR. ARTHUR WRIGHT, 38 Arnold Street, Lowestoft, Suffolk, chemist and druggist, who died on January 18 last, aged eighty-nine, left estate gross value £19,684, with net personalty £11,345.

MR. ROBERT STAFFORD CONYNGHAM, M.A., T.C.D., L.R.C.S.I., L.R.C.P., Snaith, Yorks, who died on December 8 last, aged forty-seven, son of the late Mr. Henry Conyngham, of Waterloo Road, Dublin, left estate gross value £11,496, with net personalty £11,160.

MR. ALBERT HAGON, 73 Newport Road, Cardiff, chemist and druggist, founder and head of Albert Hagon, Ltd., 5 Bute Street, Cardiff, who died on January 18, aged seventy-four, left estate gross value £9,894, with net personalty £3,277.

MR. JOHN ROBERT WRETTS, Ph.C., 12 York Street, Baker Street, London, W., late director of John Bell & Croyden, Ltd., 50 Wigmore Street, London, W., who died on February 3 last, aged eighty-seven, left estate gross value of £10,568, with net personalty £10,459.

MR. THOMAS TUCKER, F.C.S., 155 Hainault Road, Leytonstone, E., director and general manager of Thomas Tyrer and Co., Ltd., manufacturing chemists, Stirling Chemical Works, Stratford, London, E.15, who died on January 1, aged seventy-two, left £4,051, with net personalty £3,454.

Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1933, p. 329.

(From "The Trade Marks Journal," April 5, 1933.)

"CHARTER"; for chemicals (1). By The General Chemical & Pharmaceutical Co., Ltd., Juxed Works, Harrow Road, Sudbury, Middlesex. 539,485.

"HYDROSS"; for chemicals (2). By Ross Brothers, Ltd., 4 London Road, Patcham, Sussex. 537,044.

"MOSSINE"; for chemicals (2) and for medicinal chemicals (3). By D. Ramsay & Son, High Street, Uffculme, Devonshire. 538,458/459. (Associated.)

"ZEYAX"; for a preparation for reducing swellings in horses' legs (2). By L. H. Llewellyn, Ltd., 15 Penel Orliou, Bridgewater, Somerset. 537,927.

"TALFACTO"; for disinfectant air spraying preparations (2). By A. Talbot, 29 Hemingway, Blackpool. 539,501.

"HEWTHORN'S GASEOUS BLACK DRINK" on label design; for a veterinary medicine (2). By F. Hewthorn & Co., Ltd., Cook's Road, Stratford, E.15. B537,100.

"FLAVIGUM"; for chewing gum (3). By Norgine Pharmaceutical Products (London), Ltd., 3 & 4 Clement's Inn, London, W.C.2. 539,756.

"ENO'S FAMILY STOMACHIC VEGETABLE ANTIBILIOUS PILLS" on circular label with name and address of applicants; for pills (3). By J. C. Eno, Ltd., 160 Piccadilly, London, W.1. 538,064. (Associated.)

"KAMINIA POMADE," etc., on label design incorporating flowers and girl (flower devices disclaimed); for pomade (48). By The Anglo-Indian Drug & Chemical Co., 155 Juma Musjid Market, Bombay, India. 538,169. (Associated.)

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| B/28. B. S. & Co., Liverpool
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THE CHEMIST AND DRUGGIST

VOL. CXVIII. APRIL 15, 1933

NO. 2775

Chemists and Medicated Wines

WE have just passed through the annual spate of confused thought and well-meant futilities which experience has taught us to expect from our Licensing Courts. As usual, the question of the sale of medicated wines by chemists has come up for treatment, if not for consideration, and it is of melancholy interest to note the little progress towards common sense which these Courts seem to make in dealing with the subject. The Finsbury Brewster Sessions had before them applications for renewals by some chemists who are holders of wine retailers' off-licences, when, as was not unnatural, the renewals were opposed by some rival traders. A representative of these rival traders suggested to the Court that the holding by chemists of licences to sell wine by retail was something especially detrimental to social order; and the eccentric proposition having apparently been sympathetically received by the justices, a remedy for this preconceived evil was hunted for. It was gravely debated whether a purchaser of a bottle of wine from a wine retailer who happened also to be a chemist should not be obliged, before being allowed to do so, to provide himself with a doctor's prescription or, as it was called, "certificate"—it may be from some sinister connection with our Law of Lunacy. As, however, the quaint suggestion was happily not adopted, it is unnecessary at the moment to consider it further.

Legal Considerations

Putting aside for the moment the policy involved, there are obvious objections in law to such a course as this. In the first place, there is no such thing as a definition in law of "medicated wine"; and to grant to any wine retailer a licence allowing him to sell medicated wine and medicated wine only is to grant him permission to do something of the extent of which he can get no exact notion. He cannot tell whether a sale he contemplates making will or will not be within the terms of his licence, that is, whether or not he will be committing an offence by carrying it through. It is true that the Commissioners of Customs and Excise have adopted a standard for what they regard as medicated wine, but this is solely for the purpose of enabling them to grant a departmental concession from the strict law to persons who would but for the concession be liable to take out Excise licences. The case is quite different where justices adopt a standard for the purpose of restricting the privileges of the licensee. Then again, there is the further objection that the condition imposed by the justices upon the licensee is not enforceable in law; the chemist can disregard it without making himself liable to any penalty. The law is quite clear on the point that a condition cannot be attached to a licence to sell intoxicating liquor for consumption off the premises.

Of course it would be open to the justices to refuse to renew the licence at the following Brewster Sessions if the chemist licensee disregarded a restrictive condition attached to his licence. But it must not be lightly assumed that a Licensing Bench would use such a means to bring the law into conformity with what they think it ought to be.

An Illogical Course

The incidents at the Finsbury Court may be taken as fairly representative of the working of these tribunals in general in so far as their attitude towards the holding of wine-retailers' licences by chemists is concerned. It may therefore be worth the trouble of an attempt to understand it. This, it must be confessed, is no light undertaking. First we find the justices in an apparent anxiety, which will generally be recognised as natural, to secure the dispensing to the public of medicated wines exclusively by chemists. Then, having come to this conclusion, the justices set about to hamper the perfectly legitimate trade of chemists in another direction without a shadow of reason for holding that such restriction would serve to promote the work which other indications suggest the justices desire to advance. For it has not been contended, and cannot be contended, that the fact that a licensed retailer of medicated wines who is a trained chemist is also (as he is in law) privileged to retail ordinary wines in any way militates against his acknowledged competence to sell the medicated article. Yet this is what the action of licensing benches in restricting, or rather purporting to restrict, chemists who hold wine retailers' licences from selling ordinary wines clearly imports. Such conduct as this on the part of the justices goes a long way to explain the rising movement in favour of removing licensing jurisdiction from the justices altogether and confining it—as has been found a success in Northern Ireland—to trained stipendiary magistrates.

Many-sided Butchers

WE have received from a correspondent a sheaf of "literature," in the form of advertisements, disclosing the fact that the trade of the butcher is combined with that of vendor of "world-famous medicines," and giving prices of "Best British Empire Beef" and other meat together with particulars of several medicaments and toilet articles. We are reminded that when looking, recently, through *THE CHEMIST AND DRUGGIST* of the year 1883 in search of paragraphs for our "Retrospect of Fifty Years Ago" we came across a letter the writer of which referred incidentally to "that shrewd and sensible body, the butchers." Browning, in "Shop," wrote:—

"I want to know a butcher paints,
A baker rhymes for his pursuit,
Candlestick-maker much acquaints,
His soul with song, or, haply mute,
Blows out his brains upon the flute!"

There is a difference, of course. Browning's tradesmen, as far as it is known, made no profit out of their hobbies, whereas the intention of the advertisements we have received is clearly that the housewife's shopping bag should be loaded with a promiscuous assemblage of raw meat, family embrocation and peroxide tooth-paste. Whether chemists could, in favourable circumstances, make as great a success of sides of beef as a side-line as some butchers are apparently making in that way of unstamped proprietaries we do not know; but we believe that the experiment has been tried.

Pharmaceutical Society of Great Britain

Edinburgh Evening Meeting

THE fifth Edinburgh meeting of the present session was held at 36 York Place, Edinburgh, on March 17, Mr. J. B. McVitie (chairman of the Executive) presiding.

THE CHAIRMAN said on this occasion they had a programme provided by teachers and students from the Royal Technical College, Glasgow. He had pleasure in calling upon Miss Baird to read the first communication on:—

The Sterilisation of Sodium Bicarbonate

By J. P. TODD, Ph.D., Ph.C., and JANET Y. BAIRD, B.Sc., Ph.C.

[ABSTRACT]

THE sterilisation of sodium bicarbonate by heat gives rise to practical difficulties, since it must be carried out under conditions which prevent loss of carbon dioxide. This necessitates sealed containers and an excess of CO_2 to restore the equilibrium. Such conditions are inconvenient in everyday practice. The simplest and probably the safest method is by filtration with pressure through a suitable filter such as the Seitz, but this also involves the use of apparatus capable of sterilising the filter itself—not as yet a common feature of the everyday pharmacy. The remark of Mr. Skinner that the salt can be sterilised by percolation with ether was noticed with interest. Such commercial samples of sodium bicarbonate from stock as were tested were found to be free from micro-organisms capable of developing under the conditions suitable for the growth of bacteria.

The samples to be tested were contaminated by the addition of live bacteria, using as test organisms *Sarcina lutea* (non-sporing) and *Bacillus megatherium* (spore-bearing). The air-dry salt was mixed with the growth scraped from cultures of the organisms on nutrient agar. The samples contaminated with *Sarcina*, when plated out, showed copious growths; those with *megatherium* did not develop until subcultured on to neutral agar. This made it necessary in the experiments with ether and *megatherium* to subculture on each occasion, to avoid the inhibiting effect of the alkalinised medium. As the results were not intended to be quantitative this point was of little importance. The contaminated samples treated with excess of ether for twelve hours in a suitable container were freed from ether by a current of air filtered through cotton-wool. These samples in every case yielded copious growths of the organisms, which was taken to indicate that ether exerts no bactericidal action. The experiments were repeated, using absolute alcohol, and again with chloroform, with the same result in each case. The authors have little doubt, as a result of previous work, that the addition of water would have caused destruction of the non-spore-bearing organisms.

Discussion

DR. TAIT said he would like to ask Dr. Todd if any harm had resulted from the use of the ordinary sodium salts. After all, any few organisms getting into the blood would be destroyed by the phagocytes.

MR. HILL said probably the most important statement in the paper was that ether is not effective for the sterilisation of sodium bicarbonate. Miss Baird had placed on the table a Seitz steriliser, and it was of interest to see and have explained the working of such a piece of apparatus.

DR. TODD, replying, said he thought it quite likely that any micro-organisms that might get into the blood stream would be destroyed in the ordinary way. On that point he had some experience during military service. It might be that ordinarily no micro-organisms were present, but they always had the fear that the odd in-

stance of contamination might arise, and on grounds of safety the precaution of sterilisation was adopted.

The next communication was on:—

Fungal Growths in Liquor Arsenicalis, B.P., 1932

By GEORGE R. MILNE, Ph.C., and GORDON RATTRAY, Ph.C.

[ABSTRACT]

REPORTS concerning the growth of moulds in liquor arsenicalis have been numerous and conflicting. Eight one-litre batches of liquor arsenicalis of Ph varying from 4.4 to 8.7 were prepared in the following way. The arsenic trioxide was dissolved in the specified amount of solution of potassium hydroxide, and by varying the amounts of dilute hydrochloric acid added, solutions having a range of Ph were obtained on making up to volume. The solutions were carefully filtered through purified asbestos to avoid the inclusion of organic matter from filter-paper. The Ph of each respectively was found to be 4.4, 5, 5.5, 6.2, 7, 7.8, 8.2, 8.7. Quantities of 15 mls of each liquor were placed in hard glass test-tubes and arranged into sets of eight, each set having the above range of Ph. In all, sixteen of these sets were treated as follows:— (1) Fitted with ordinary corks. (2) Sterilised by autoclaving and loosely plugged with non-absorbent cotton-wool. (3) Autoclaved and inoculated with *Penicillium brevicaulis*. (4) Autoclaved and inoculated with *Penicillium glaucum*. (5) Autoclaved and inoculated with *Rhizopus nigricans*. (6) Autoclaved and inoculated with *Aspergillus glaucum*. (7) Autoclaved and inoculated with *Mucor mucedo*. (8) Autoclaved and inoculated with mould from Sample Ar.

This series was allowed to stand at room temperature, and a similar series was incubated at 34° C. These sets were examined from time to time, but up to the present those which had not been inoculated with mould show no fungal growth. The moulds in the inoculated samples show no definite increase in growth, although in the samples of about Ph 7 they appear to be healthiest, but growth at best is slight. The series will have to be observed over a longer period. It is concluded that in samples prepared avoiding the introduction of organic matter and inoculated with suitable moulds little growth took place over a period of three weeks at temperatures suitable for the rapid development of moulds.

Discussion

MR. ROWLAND said he had experience of a 1-per-cent. solution of arsenic trioxide in water. It kept perfectly well for a long time, and he had never heard any objections raised against it.

MR. BEATTIE said he was well aware that moulds could grow on arsenic. He had prepared four 10-gallon batches of liquor arsenicalis, B.P., 1932, and had never found the slightest cause of complaint. On one occasion, however, a supply was sent to a retail pharmacist, from whom a complaint was received that it had developed a fungoid growth. The supply had been placed in the ordinary shop round, and the only conclusion they could arrive at was that this was an infected bottle.

DR. TODD said they had been very unsuccessful in getting any fungal growth. Even when they introduced a fungus it did not grow. Possibly a small quantity of organic matter might be introduced if the solution was passed through filter-paper, or there might be some fungus present in the water supply.

DR. TAIT said he was interested in Mr. Beattie's reference to the container as a cause of contamination. In the case of a corked bottle organic matter and micro-organisms might come from the cork.

MR. HILL said the mystery of liquor arsenicalis becoming mouldy seemed still unsolved. It seemed quite clearly settled that the liquor arsenicalis, B.P., 1932, was not a satisfactory preparation. Mr. Blair had obtained samples of arsenic trioxide of guaranteed purity but with the statement that the solubility varied from 1 in 108 to 1 in 355 parts of water. This raised the further question as to whether there is on the market an arsenic trioxide which corresponds to the B.P. as to solubility of 1 in 65 of water.

MR. MILNE, replying, said their object had been to relate the PH of the solution with the growth of mould, but apparently they had not yet had sufficient time.

The next communication was on:—

The Solubility of Calcium Lactate

By GEORGE H. MACMORRAN, Ph.C.

[ABSTRACT]

THE reasons for variations in the solubility of calcium lactate are still not understood. Two samples of the salt were prepared in the laboratory by different methods.

Sample A (Method of Eder and Buchi).—Lactic acid was diluted and boiled with excess calcium hydroxide for half an hour. Carbon dioxide was passed through the solution to remove excess lime. After filtering and again passing carbon dioxide, the solution was concentrated, filtered, and allowed to crystallise. Partial drying was carried out at 37° C., and finally the substance was air-dried between clean filter-paper.

Sample B.—Lactic acid was diluted and boiled for half an hour under a reflux condenser with 5 per cent. excess caustic soda. This solution was exactly neutralised with hydriodic acid, and an equivalent amount of calcium iodide in acetone solution added, the amount of acetone being sufficient to give a final concentration of about 66 per cent. acetone. The precipitate was separated, washed with a mixture of water 1, acetone 2, and then with pure acetone until the washings were free from iodide. Final washing was carried out with dry ether, and the product air-dried.

Five samples of calcium lactate were obtained from actual manufacturers, and two samples were used which had been in stock for three and a half and ten years respectively. Storage in both cases had been under ordinary shop conditions. The following tests were carried out:—(1) Estimation of $C_6H_{10}O_6 \cdot 5H_2O$. (2) Loss at 100° C. (3) Solubility. (4) Various sugars. (5) Acid and alkali. (6) Molecular weight. (7) Crystalline structure. (8) Optical rotation. (A table gives the details of the experimental work.)

The results obtained are summarised as follows:—

(1) No appreciable loss of water of crystallisation takes place on keeping, nor does the solubility decrease.

(2) The variation in solubility does not appear to be due to any variation in constitution.

(3) The solubility varied from 1 in 12.9 to 1 in 26.5 with samples prepared by different methods.

Discussion

MR. HARLEY said this paper indicated a great amount of careful detail work. He had occasion to examine his stock of calcium lactate a few days ago, and found the solubility was 1 in 15.

MR. BOA said he had observed great variation in solubility. Even in books there was a want of uniformity. The B.P. gave 1 in 18.5 and the B.P.C. gave a similar figure, and yet the B.P.C. had a formula for solution of calcium lactate containing 30 gr. in each fl. oz., which was about 1 in 16.

DR. TARR said he regarded calcium lactate as a valuable salt. He had prescribed it in solution, but on two occasions found that apparently precipitation took place, perhaps by dissociation. As a consequence he now prescribed it in tablet form with satisfactory results.

MR. HILL said that in the U.S. Pharmacopœia they gave a temperature of 120° C. to eliminate all water, and said that the salt should lose from 25 to 30 per cent. They gave the solubility as 1 in 20 but, of course, that was at 25° C. He noticed that in the Italian Pharmacopœia, 1929, the solubility was given as 1 in 9.5 of water, which was very different from all the others.

MR. MACMORRAN, replying, said in regard to the age of the samples, the last on the list was about ten years old and yet the solubility was 1 in 19, which was quite a normal solubility and suggested that the solubility did not decrease through age. Age did not appear to have much to do with the relative solubility. With regard to separation of the salt on standing, he thought there was a liability of calcium lactate solution existing in a condition of supersaturation, and on standing the excess of the salt might separate out. The relatively small loss at 100° C. indicated that the salt did not contain $5H_2O$. The solubility 1 in 9.5 was given in Thorpe's Dictionary and also in Ullmann's Encyclopædia.

The next communication was on:—

The Percentage Solutions of the B.P., 1932

By E. J. SCHORN, Ph.C., A.I.C.

[ABSTRACT]

THE value of the present Pharmacopœia as a presumptive legal standard has been enhanced by its precision of definition. The definition of the term "percentage" is amplified, and the Pharmacopœia differentiates w/w, v/v and w/v percentages. It is important to note, however, that all such definitions are expressed solely in terms of the metric system. As pharmacists more commonly dispense on the avoirdupois system and on the apothecaries' system an anomalous state of affairs is brought into being. The Pharmacopœia realises this, draws special attention to the matter, and explains the reason for a seeming discrepancy. It, moreover, advises the procedure to be adopted when w/v percentage solutions are to be made or dispensed on the imperial system. One hundred grams of water in air at ordinary temperatures measures 100.2 mils, but the weight of substance required for any given w/v percentage solution is not dissolved in sufficient water to make 100.2 mils but is made up to 100 mils with sufficient water. Consequently the solution is stronger than the normal percentage by 0.2 per cent., and to make an equivalent percentage solution on the imperial system the weight of substance must be increased proportionately. That is why the figure is given as 43.847 gr. instead of 43.75 gr. Previously a small negative error, to the extent of 0.221 per cent., had been consciously committed when making w/v percentage solutions on the imperial system.

The 1932 Pharmacopœia, however, is inconsistent in one or two isolated cases involving this relationship between weight and volume. In the preparation of dry extract of nux vomica it is left to the worker to relate the total solids in the percolate expressed as a w/w proportion with the strychnine content expressed as a w/v proportion. In the assay of liquid extract of cinchona it is assumed that the w/w proportion of alkaloids may be converted into a w/v proportion by use of the specific gravity figure. A similar assumption is drawn in the assays of Parrish's and Easton's syrups. The Pharmacopœia also shows a very slight inconsistency in dealing with the amount of residue allowed in certain liquid preparations. In ether and in chloroform the amount is stated as w/v, in carbon tetrachloride as w/w per cent., in acetone as w/v per cent., while in ethyl chloride it is simply per cent.

Discussion

DR. TODD said these figures involved a very complicated explanation, but practically, hitherto, they had been satisfied with the figures 43.75. The new figure always gave them an awkward fraction.

MR. HILL said one criticism on the B.P. had been that it was pedantic, and possibly this was one of the items which was supposed to justify such a criticism. With regard to the question of 44 gr., there could be little doubt it was quite lawful, because the Pharmacopœia directed the use of 44 gr. in making the solution. The more precise figure, 43.847, was put in as a parenthesis.

THE CHAIRMAN said he thought the compilers of the B.P. seemed to have almost made a fetish of this percentage solution figure.

Branch Meeting

Harrow.—A meeting of the Harrow and District Branch was held on April 5, Mr. R. H. Rowson (president) in the chair. Dr. C. H. Hampshire (chairman of the British Pharmaceutical Conference) gave a lecture on *The British Pharmacopœia*. The meeting was well attended and the lecture proved to be of great interest. Dr. Hampshire showed how the drugs included in the Pharmacopœia expressed the trend of modern medical treatment. The disappearance of a large number of vegetable drugs of doubtful utility; the reduction in the number of drugs having similar properties; the inclusion of antitoxins, serums, animal preparations, organic arsenical compounds, and biologically standardised drugs, and the details given for the sterilisation of solutions for injection were quoted as instances of the changes made in accordance with modern ideas. Some points upon which the pharmacopœial methods had been adapted to the needs of the dispensing pharmacist were referred to. The changes in dosage were discussed and the need for directing the attention of medical men to the changes was emphasised.

DISCUSSION

The chairman said the Pharmacopœia now included a good general ointment basis, unguentum simplex, which would be of great value. Ipecacuanha wine had been much talked about, but he thought the situation presented little difficulty. Mr. Bateson drew attention to the instability of liquid extract of ergot, particularly after dilution with water. Mr. Gibson referred to the necessity for publicity in bringing to the notice of medical men the advantages of prescribing pharmacopœial preparations. Mr. Fremantle said there was some difference of opinion whether the simple ointment to be used in making sulphur ointment should be made with white or yellow soft paraffin. The ointment obtained from two pharmacists might be different in colour. Mr. Conduit asked whether an assayed specimen of powdered digitalis which did not contain exactly the 10 units per gm. required by the Pharmacopœia

could be dispensed by using a proportionate amount. He also asked for the latest information about liquor arsenicalis. Mr. McNeal referred to the difference in appearance of mixtures which might be caused by the use of a fresh infusion in one pharmacy and the corresponding concentrated infusion in another. Mr. Vallans asked if any trouble had been encountered with simple ointment owing to a tendency to granulate on cooling. He had had some difficulty with the familiar mixture of zinc ointment and castor oil, when he used zinc ointment made with the simple oil basis. The chairman said he had paid some attention to simple ointment and had not heard of any trouble due to separation of granules on cooling. Dr. Hampshire, replying, said the introduction of concentrated infusions had been valuable in excluding inferior preparations which were deficient in alcohol and contained other preservatives. The differences between mixtures prepared with concentrated infusions and with fresh infusions were to be regretted, but were unavoidable. He thought that no pharmacist would have expected the Commission to delete the fresh infusions from the Pharmacopœia altogether. In any case, medical opinion would not have approved. Statements differed as to the period for which liquid extract of ergot would retain its activity; three months and nine months had been mentioned by different observers. An investigation was proceeding. The intention had been to encourage the use of the defatted powder, ergota preparata, which was very stable; the liquid extract was retained in the Pharmacopœia for the time being because demands were certain to be made for it for some time to come. It was to be hoped that the ergota preparata would come more and more into use. With regard to digitalis, the hope was that with this standardised preparation, and also with pituitary extract, medical men would accustom themselves to prescribing by units instead of by weight or volume. Liquor arsenicalis provided problems which were not so simple as they might seem at first sight. Investigations were proceeding. It was agreed unanimously to support Mr. McNeal (secretary) at the forthcoming Council election.

Prescription Problem

THE prescription reproduced in facsimile in our issue of March 11 (p. 258) brought a smaller response than usual. The correct transcription is as follows:—

M[ist.] Nx[=Nucis] V[o]m[.] Al[k]al[i]n[.]
3ss t[.] d[.] 3viij

The purpose of the dots over the first two abbreviations is obscure: possibly the prescriber was subconsciously remembering that each word, if written in full, would require a dot. This prescription has proved, it seems to us, to be unexpectedly difficult; but we had the advantage of seeing that it was written on a National Health Insurance form, and if we had disclosed that fact the thoughts of our correspondents would probably have turned more readily to stock mixtures. As it is, we have received a high proportion of incorrect readings. Taking the name of the substance first we find—

Liq. bis. et ammon. citratis *Vin. ferri ammon. citratis
*Mist. ferri citratis Vin. sem. colchici
*Tr. nux vom. alcoholic.

and one particularly ingenious conjecture, in which the line was divided into "Tinct Nucis Vomicae" and "Albulactin." The readings marked with an asterisk were sent by more than one competitor. The dose selected naturally varied widely; in the cases in which it was believed to be that of a tincture of nux vomica it ranged from m. iv. to m. viij. One competitor gave "p.r.n" without a dose, and two read the "3 viij" as the initials "G. M." A few postcards gave the correct name of the preparation prescribed, but had the wrong quantity, wrong dose, or both. The ten best solutions are those of:—

Miss C. M. Bateman, 211 High Road, Harrow-Weald.
Mr. A. L. Bratley, Pontefract.
Mr. E. Buckley, 257 Hunslet Road, Leeds.
Mr. Horace Hoyle, 11 Waterside, Slaithwaite, Huddersfield.
Miss Grace L. Marks, 9 Claremont Terrace, Sunderland.
Mr. Oscar H. Marshall, 9 Queens Road, South Norwood, London, S.E.25.
Mr. Alexander Murray, 16 Church Street, Stratford-on-Avon.
Mr. H. I. Phillips, 11 Crown Street, Liverpool.
Mr. E. L. Read, 51 New Cut, Lambeth, London, S.E.1.
Mr. Arthur T. Rutherford, Newbiggin-by-the-Sea.

None of these transcriptions is quite as accurate as we usually get on these occasions, and one competitor has stamped his card insufficiently: we think the justice of the case will be met by awarding each of the ten a prize of 5s. The following five have transposed the quantity and the dose:—

Mr. W. H. Arnold, 11 Burgess Street, Leicester.
Mr. R. S. Ive, 115 Gloucester Road, South Kensington, London, S.W.7.
Mr. W. E. Metcalfe, 2 Ashfield Road, Shipley, Yorks.
Miss V. Pullen, c/o Masons, 89 Acre Lane, Brixton, London, S.W.2.
Mr. K. C. B. Walton, 42 Bromyard Road, Worcester.

To each a prize of 2s. 6d. will be sent. Their cards suggest that by the exercise of horse-sense a prescription may be correctly dispensed without being quite correctly read—a doctrine to which, however, we do not propose to commit ourselves.

Corner for Students

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students," *'The Chemist and Druggist,'* 28 Essex Street, London, W.C.2."

QUALITATIVE ANALYSIS

A MIXTURE of not more than three salts will form the subject of the next exercise in qualitative analysis. The mixture may contain metallic and acidic radicals occurring in the British Pharmacopœia, or any of the commoner radicals not mentioned in that work, and is to be submitted to a thorough systematic examination, all its constituents are to be detected, and proof is to be given that the substances detected are the only constituents of the mixture.

Students' applications for portions of the mixture of salts (accompanied by a *stamped and addressed envelope*, not a stamp merely) will be received up to Tuesday, April 18, on which day the samples will be posted. Students' reports will be received up to Saturday, April 29. Each report should contain a concise account of the work done, and should include a list of the constituents detected. In this list any substance regarded as an accidental impurity should be distinguished from the essential constituents of the salts composing the mixture.

The analysis announced above forms the final exercise in the analytical tournament for the current winter session. The usual monthly first and second prizes in this series of analyses will be awarded only to apprentices or assistants who have not passed in Chemistry in the Preliminary Scientific examination in Great Britain, in the Licence examination in the Irish Free State, or in Chemistry, Part I, in Northern Ireland, which fact *must be attested on their reports*. They will not be awarded to former winners of tournament prizes.

Report on the March Analytical Exercise

(Concluded from the C. & D., April 8, p. 396.)

TO CORRESPONDENTS

EDGAR PHILLIPS.—The absence of bromide and iodide might have been more definitely established by testing with chlorine water and carbon bisulphide or chloroform. The difference in behaviour of silver chloride and silver bromide on treatment with ammonia is not sufficient to form the basis of a delicate qualitative test.

PARTICIPANT.—Your summary of results is substantially correct, but you would have gained a considerably higher award if your report had included the results of a number of preliminary tests that you seem to have omitted to apply. Some discrimination should have been indicated between the sodium which was present in large proportion and the other metallic radicals of which only well-defined traces were present.

PERSISTENCE.—It is remarkable that you should have failed to observe one of the most striking features of the preliminary testing—the evolution of carbon dioxide when the powder was treated with dilute hydrochloric or sulphuric acid. It seems scarcely possible that the quantity of water in the dilute acid used should have been sufficient to retain, in the cold, all the carbon dioxide that might have been evolved on heating.

BON-ACCORD.—The pungent odour observed on heating the powder with dilute hydrochloric acid was due to the volatilisation of some of this acid. Sometimes such an odour is attributed to sulphur dioxide and sometimes to acetic acid. When there is risk of mistaking hydrochloric acid so volatilised for another gas or vapour, it is advisable to repeat the experiment, employing dilute sulphuric acid from which acid vapour does not arise on heating.

SMILER.—Your report on preliminary testing shows that you omitted to apply a number of important tests. You ought to have given an account of how you proved to your own satisfaction that other metals besides sodium were not present. The mere assertion that no others were found was not sufficient.

QUISQUE ERRAT.—The odour noticed when the powder was heated in a dry tube did not resemble that observable on heating an acetate or a citrate. Try some tests with a sample of sodium salicylate and note the points in which these yield characteristic reactions.

WYONG.—The brown fumes evolved when the powder was heated with concentrated nitric acid were not due to bromine but to nitrogen peroxide. Heating the powder by itself in a dry tube yielded volatile products with a distinctly phenolic odour.

OGWY.—The precipitate formed on adding hydrochloric acid to the aqueous solution of the powder consisted of salicylic acid and dissolved readily in boiling water. It is possible that you might momentarily take it for lead chloride, but that its aqueous solution should give a precipitate of lead chromate on the addition of potassium chromate was a wild flight of the imagination.

MELIS.—Some practice at the laboratory bench with a mixture prepared in imitation of that distributed should enable you to understand the errors you have made in your analysis.

An Important Text-Book

THE appearance of "The Science and Practice of Pharmacy," by Messrs. R. R. Bennett and T. Tusting Cocking (J. and A. Churchill, 40 Gloucester Place, London, W.1: 2 vols., 18s. each), is an event of unusual interest. Most authors of the text-books that pharmaceutical students use are, or have been, teachers of the subjects on which they write; the order in which these subjects are introduced and the emphasis on each are usually conditioned by the writers' experience in the classroom. Thus we turned in the first place to the preface of Messrs. Bennett and Cocking's book in order to gain an idea of their ground-plan. In the opening paragraph they point out that "the responsibilities of the pharmacist have been greatly increased by the striking changes in materia medica wrought by progress in medicine and the allied sciences," and that "to-day, the practice of pharmacy is interwoven with chemistry, physics, biochemistry, physiology and therapeutics"; further, "manufacturing pharmacy is now essentially a branch of chemical industry."

All these facts imply that the student has much more to learn, as a minimum, than was the case a generation ago; and we have been impressed by the method adopted by the authors of this text-book in marshalling their subject-matter, and by their conspicuous clearness and economy of phrase. The first volume is subdivided into three parts, headed respectively "Pharmaceutical Operations," "The Preparation of the Official Galenicals" and "Sterilisation, and the Preparation of Medicaments for Parenteral Administration." The second volume deals chiefly with tests and assays. Commencing with simple data, the first volume proceeds to discuss manufacturing processes with the aid of numerous illustrations, which, like the type of the text, are admirably clear. Similarly, the second volume opens with an exposition of necessary chemical and physical principles, and goes on to apply them to analytical work with a sufficiency of charts and other tabular matter.

The order in which the subjects are presented by Messrs. Bennett and Cocking is, we think, one that can hardly be improved upon. The same remark applies to the concise definitions of terms used: we do not propose to give examples of these, there being few, if any, definitions in the world to which some academic objection may not be made. It is somewhat amusing to read so early in the life of the present British Pharmacopœia, that the official assay of thyroxinsodium "is unnecessarily complicated"; but there it is (Vol. II, p. 195). Possibly the etymology of each of the principal terms defined might have been added with advantage in a work of this scope; the authors, however, have decided otherwise, recognising that their space is not unlimited. To what purpose they have used their pages (over 700 in all) is indicated in this brief account of a striking example of the art of imparting instruction.

Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, April 12

WITH the approach of the holidays it was not anticipated that the markets would be anything else but quiet this week, business being very ordinary in character. The tone throughout is quite steady and there are few changes in values recorded. The pharmaceutical chemicals market calls for little comment, except that some of the convention articles are being discontinued. The crude drugs markets are sluggish as a whole with business on a petty scale. Norwegian cod-liver oil continues firm with Lofoten fishing ended and the total oil production showing a substantial decline on the year. A moderate turnover is reported in essential oils, but the prices obtained in most instances suggest that spot holders are weary waiting for a turn in the market. Actual business in Japanese peppermint has been small; goods afloat are being bolstered up. Citronella remains dull and unsteady. Sicilian hand-pressed lemon and sweet orange are quoted for shipment at cheap figures, but business has not been much.

Exchange Rates on London

THE following is a list of the chief Continental and other exchange rates at the opening on Wednesday morning:—

Centre	Quoted	Par	April 12	Value of the £
Amsterdam ...	Fl. to £	12.107	8.45	13/11½
Berlin ...	Mks. to £	20.43	14.37½	14/0½
Brussels ...	Belga to £	35	24.44½	13/11½
Copenhagen ...	Kr. to £	18.159	22.16	24/8½
Lisbon ...	Esc. to £	110	110	20/-
Madrid ...	Ptas. to £	25.22½	40.16	31/10½
Milan ...	Lire to £	92.46	66.8	14/5
Montreal ...	Dol. to £	4.86½	4.11	16/10½
New York ...	Dol. to £	4.86½	3.41 7/16	14/0½
Oslo ...	Kr. to £	18.159	19.55	21/6½
Paris ...	Fr. to £	124.21	86.8	13/11½
Prague ...	Kr. to £	164.25	115	14/-
Stockholm ...	Kr. to £	18.159	18.82	20/9½
Warsaw ...	Zloty to £	43.38	30½	14/2½
Zurich ...	Fr. to £	25.2215	17.1½	14/0½

Bank rate 2 per cent.

Pharmaceutical Chemicals, etc.

THIS market continues generally steady, with a moderate business in small quantities. Bromides are steadier. Hexamine is a good market. Quinine salts are unchanged.

ACETANILID.—Market is steady with business quiet: B.P. crystals and powder, 1s. 5½d. to 1s. 8d. per lb., as to quantity.

AMIDOL.—A steady inquiry is being received: 56 lb., 7s.; 28 lb., 7s. 6d.; 14 lb., 7s. 11d. per lb., in 7-lb. tins.

AMIDOPYRIN.—Dealers' prices on spot are maintained; business is small: crystals, five cwt., 17s. 10d.; two cwt., 18s. 3d.; less than two cwt., 19s. 3d. per lb., with powder 2½d. per lb. extra.

ASPIRIN.—This market is very steady and, for the time of year, business is average. Home trade: ten cwt., 2s. 9d.; five cwt., 2s. 10d.; one cwt., 2s. 10½d.; 28 lb., 2s. 11d.; 14 lb., 3s.; 7 lb., 3s. 2d. per lb. Export to Colonies and British Possessions: ten cwt., 2s. 9d.; five cwt., 2s. 10d.; one cwt., 2s. 10½d. per lb., f.o.b.; less than one cwt., 2s. 11d. per lb., ex works.

BARBITONE.—Business is moving in small quantities on spot; market steady: spot, one cwt., 11s. 2d.; 56 lb., 11s. 6d.; 14 lb., 11s. 9d.; small parcels, up to 12s. 6d. per lb.

BENZOIC ACID (B.P.).—Average business on a steady market: quantities, ex works, 1s. 9½d.; spot parcels, 1s. 10d. to 2s. 1d. per lb., ex store, as to quantity.

BROMIDES.—The market was rather disturbed, but is now steadier: ammonium, not less than five cwt., 1s. 9d.; one

cwt., 1s. 10d.; 28 lb., 2s. 1d.; smaller quantities, 2s. 5d. per lb.; potassium B.P. crystals and granular, not less than five cwt., 1s. 6d.; one cwt., 1s. 7d.; 28 lb., 1s. 10d.; smaller quantities, 2s. 2d. per lb.; sodium B.P., not less than five cwt., 1s. 8d.; one cwt., 1s. 9d.; 28 lb., 2s.; smaller quantities, 2s. 4d. per lb. net, without engagement. Special prices for larger quantities.

CAFFEINE.—Business is slow and for limited quantities; competition spoiling prices: pure alkaloid, 5s. to 5s. 6d. per lb.; citrate, 4s. 3d. to 4s. 8d. per lb., as to quantity.

CALCIUM LACTATE.—Quotations are keen for important business: spot, one cwt., 1s. 1d.; 56 lb., 1s. 1½d.; 28 lb., 1s. 2½d.; smaller quantities, up to 1s. 6d. per lb.

CHLORAL HYDRATE.—Makers' prices for home trade are as follows: duty paid crystals, in 14-lb. free containers, five cwt., 3s. 4d.; one cwt., 3s. 5d.; 56 lb., 3s. 6d.; 28 lb., 3s. 7d.; 14 lb., 3s. 8d. per lb.; 28-lb. jars one penny per lb. extra.

CITRIC ACID (B.P. CRYSTALS).—The market continues keen with makers' quoted price for home trade unchanged at 9½d. per lb., less 5 per cent. discount, nominal and without engagement. Dealers are quoting at cheap figures.

CREAM OF TARTAR.—Makers' price for home trade for 99 to 100 per cent. material is unchanged at 82s. per cwt., less 2½ per cent. discount, nominal and without engagement. Dealers are quoting about the same figure.

GUAIACOL CARBONATE.—Some occasional business, market steady: spot, two cwt., 9s. 1½d.; one cwt., 9s. 3d.; 56 lb., 9s. 4½d.; small parcels, up to 9s. 9d. per lb.

HEXAMINE.—Business is moving on a good scale with home makers leading the market: British-made free-running crystals, five cwt. in one delivery, 1s. 11d.; one cwt., 2s. per lb., in one-cwt. kegs, and higher prices for smaller quantities, in bags. British, rough powder, 1s. 8d. per lb., in kegs; foreign free-running crystals, spot, two cwt., 2s. 2d.; one cwt., 2s. 2½d.; smaller quantities, up to 2s. 6d. per lb.

HYDROQUINONE.—Seasonal business is being done on a fair scale, market steady: ten cwt., 5s. 7½d.; five cwt., 5s. 8½d.; two cwt., 5s. 9d.; one cwt., 5s. 9½d.; 56 lb., 5s. 10d.; 28 lb., 6s.; 14 lb., 6s. 2d.; 7 lb., 6s. 6d. per lb., carriage paid.

METHYL SALICYLATE (B.P.).—Quoted prices are fully steady, business on the quiet side: one ton and over, 1s. 4½d.; ten cwt., 1s. 5d.; five cwt., 1s. 5½d.; one cwt., 1s. 6d.; less than one cwt., 1s. 6½d.; small quantities in bottles, up to 2s. per lb.

METHYL SULPHONAL.—Inquiry is limited, but dealers' spot prices are maintained: two cwt., 19s. 6d.; one cwt., 20s.; 56 lb., 20s. 8d.; small parcels, 21s. 6d. per lb.

METOL.—A fair amount of small business is being done at steady rates: 56 lb., 9s. 3d.; 28 lb., 9s. 6d.; 14 lb., 9s. 9d.; 7 lb., 10s. 9d. per lb. in 7-lb. tins, bottles extra. Wholesale distributors' prices for smaller quantities at higher figures.

MILK SUGAR.—Inquiry is moderate with prices competitive: one ton, 53s.; ten cwt., 54s.; two cwt., 55s. per cwt., in two-cwt. cases.

PHENACETIN.—The convention prices are being discounted in some quarters: crystals or powder, ten cwt., 4s. 1½d.; five cwt., 4s. 3d.; one cwt., 4s. 4½d.; 56 lb., 4s. 6d.; less than 56 lb., 4s. 9d. per lb., carriage paid on minimum cwt. lots. No falling clause on contracts over twelve months.

PHENAZONE.—Except for an occasional cheap offer the market is about steady; not much business about: crystals, ten cwt., 9s. 10d.; five cwt., 10s.; two cwt., 10s. 2d.; and less, up to 11s. per lb., with powder 2½d. per lb. extra.

PHENOLPHTHALEIN.—Rather more inquiry on the market; quotations steady: two cwt., 4s. 7d.; one cwt., 4s. 8d.; 28 lb., 4s. 11d.; 14 lb., 5s. 2d.; 7 lb., 5s. 5d.; smaller parcels, up to 5s. 8d. per lb.

POTASSIUM SULPHOGUAIACOLATE.—Only a small spot business with dealers quoting from 5s. 10d. to 6s. 3d. per lb., as to quantity.

PYROGALLIC ACID.—Market is receiving a steady inquiry for limited quantities: 56 lb., 7s.; 28 lb., 7s. 3d.; 14 lb., 7s. 9d.; 7 lb., 8s. 6d., per lb., in 7-lb. tins.

QUININE SALTS.—Convention prices for these salts are steady: sulphate, 1s. 9d.; bihydrobromide, 2s. 5½d.; phosphate, 2s. 8½d.; ethyl carbonate, 2s. 4d.; salicylate, 2s. 4d.; hydrochlor., 2s. 2½d.; hydrobromide, 2s. 2½d.; bisulphate, 1s. 9d.; bihydrochloride, 2s. 5½d. per oz., carriage paid on bulk quantities.

RESORCIN.—Spot values of any imported material are firm at high rates of about 5s. 10d. to 6s. 3d. British: crystals, one cwt., 4s. 11d.; 56 lb., 5s.; 28 lb., 5s. 1d.; 14 lb., 5s. 3d.; 7 lb., 5s. 6d.; less than 7 lb., 6s. per lb.

SALICYLIC ACID (B.P.).—Makers' prices are unchanged: one ton, 1s. 7d.; ten cwt., 1s. 7½d.; five cwt., 1s. 8d.; one cwt., 1s. 8½d.; 28 lb., 1s. 9d.; 14 lb., 1s. 10d.; 7 lb., 2s. per lb.

SALOL.—Market dull with outside material cutting the market: spot, crystals, two cwt., 5s. 9d.; one cwt., 5s. 11d.; 56 lb., 6s.; smaller parcels, 6s. 2d. per lb.; powder, 2d. per lb. extra.

SULPHONAL.—The spot market is steady at dealers' prices: crystals, two cwt., 15s. 9d.; one cwt., 16s. 4d.; 56 lb., 16s. 7d.; smaller parcels, up to 17s. 6d. per lb., with powder, 2½d. per lb. extra.

TARTARIC ACID (B.P. CRYSTALS).—Makers' quoted price for home trade is maintained at last week's advance to 11½d. per lb., less 5 per cent. discount, nominal and without engagement. Dealers are offering at level prices.

THEOBROMINE.—Business is still quiet and offers are competitive: pure alkaloid, 4s. 11d. to 5s. 4d. per lb.; sodium salicylate, 4s. 8d. to 5s. 2d. per lb., as to quantity.

THYMOL.—The market is dull and some spot offers are at cheap figures: synthetic, fine, white, one cwt., 5s. 3d.; 56 lb., 5s. 4½d.; 28 lb., 5s. 6d.; 14 lb., 5s. 9d. per lb.; ex ajowan seed, one cwt., 7s. 3d.; 56 lb., 7s. 4½d.; 28 lb., 7s. 6d.; 14 lb., 7s. 9d. per lb.

VANILLIN.—A limited business is being done, with some cheap sellers noted: 100 per cent., one ton, 14s. 3d.; ten cwt., 14s. 6d.; five cwt., 14s. 9d.; three cwt., 15s.; one cwt., 15s. 3d.; 56 lb., 15s. 6d.; 28 lb., 15s. 9d.; 14 lb., 16s.; less, 16s. 3d. per lb.

Crude Drugs, etc.

AGAR AGAR.—Market is dull, with spot slightly cheaper; shipment steady: spot, Kobe No. 1, 2s. 2½d.; No. 2, 2s.; Yokohama No. 1, 2s. per lb.; shipment, Kobe No. 1, 1s. 7d.; No. 2, 1s. 5½d.; Yokohama No. 1, 1s. 5½d. per lb., c.i.f.

BALSAMS.—Inquiry for *Tolu* on spot is limited: quoted at 3s. 5d. to 3s. 6d. per lb. *Canada*, 3s. 1d. per lb.

BELLADONNA.—The spot value of root is tending firmer at 65s. to 67s. 6d. per cwt. Leaves, about 65s. per cwt.

BUCHU.—A good deal of business is reported to have been done in shipment of new crop, with the price for fair green rounds about 10d. per lb., c.i.f. Spot is steady: rounds, 1s. 1d. to 1s. 3d.; ovals, 8d. to 8½d. per lb., as to quality.

CAMPHOR.—The spot market is dull and rather easy as quoted: spot, slabs, 2s. 3d.; flowers, 2s. 3d.; tablets, 2s. 8d. per lb.; shipment, slabs, 1s. 9½d.; flowers, 1s. 9½d.; tablets, 2s. 0½d. per lb., c.i.f. English refined is quoted unchanged: flowers, one cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz., and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; ½ oz., ½ oz., and 1 oz., 3s. 6d. per lb.; special prices for contracts for quantities.

CASCARA SAGRADA.—Spot holders of 1932 peel are steadily maintaining their price at 62s. per cwt.

CLOVES.—The market has been dull and is quoted slightly cheaper. Zanzibar, spot, 6d.; shipment, April-May, 5½d. per lb., c.i.f.

The landings of Zanzibar in London during the week ended April 1 were 260 and the deliveries 299, leaving a stock of 1,433. From January 1 to date, landings of Zanzibar have been 1,245 and the deliveries 1,292. Landings of Madagascar for the week ended April 1 were nil, and the deliveries nil, leaving a stock of 1,109. Landings of Madagascar this year to date have been nil and the deliveries 47.

COCONUT (DESICCATED).—Market is rather quiet but fairly steady. Spot, fine, 25s.; medium, 23s. 6d. per cwt.; shipment, May-June, 19s. per cwt., c.i.f.

COD-LIVER OIL.—The fishing results up to April 8 were as follows: 102,600 tons of cod and 63,233 hectol. of oil, compared with 122,659 tons of cod and 76,032 hectol. of oil in 1932, and 90,222 tons of cod and 42,986 hectol. of oil in 1931. The production of oil is now approximately 13,000 hectol. less than last year, and it is reported that the Lofoten fishing has finished. About 10,500 boats with 35,000 hands were engaged in the fishing this year, the greatest number for many years. The result of the season's fishing is considered unsatisfactory.

The shipment market is firm, with producers and shippers not anxious to do business. Finest Lofoten steam-refined non-freezing medicinal oil, 92s. 6d. per barrel, c.i.f. Some brands may be slightly cheaper. Spot, 107s. to 108s. per barrel, ex store, duty-paid, as to quantity.

GELATIN.—A small business passing, market steady: spot, gold leaf, 2s. 2d.; silver leaf, 2s.; bronze leaf, 1s. 9d.; thin leaf, 1s. 8d. per lb., in cwt. lots.

GENTIAN.—Practically nothing available on spot.

GINGER.—Market is steady, business moderate: West African, spot, 18s.; for arrival, 14s. 9d. per cwt., c.i.f.

GUM ACACIA.—The market has been neglected with quoted values about unchanged.

HONEY.—A fair business for the time of year is reported and prices for all kinds are keeping fully steady.

IPECACUANHA.—The spot value of Matto Grosso tends to be steadier with one holder not taking less than 5s.; there are, however, quotations from 4s. 9d. per lb. upwards, as to quantity.

MENIOL.—There has been practically no interest in this article: K/S brands, spot, 15s. 1½d. and slightly less for bulk quantities; shipment, about 13s. per lb., c.i.f. At the close the market was still neglected, with quotations unchanged.

MERCURY.—The official shipment price for Spanish-Italian is steady at 33 dollars 50 cents per bottle f.o.b. Continent. Spot is at about £9 15s. to £10 2s. 6d. per bottle, ex store, as to quantity.

PEPPER.—The market is steadier with shipment values showing a small recovery: Lampong, spot, 5½d.; shipment, March-May, 3½d.; April-June, 3½d.; May-July, 3½d.; August-October, 3½d. per lb., c.i.f.; Tellicherry, spot, 5½d.; shipment, May-June, 37s. 6d. per cwt., c.i.f.; Aleppy, spot, 5½d.; shipment, May-June, 37s. per cwt., c.i.f.; White Muntok, spot, 6½d.; shipment, March-May, 5½d.; April-June, 5½d.; May-July, 5½d. per lb., c.i.f. paid.

PIMENTO.—Values are maintained, market rather dull: spot, 2½d. per lb.; shipment, April-June, 22s. 6d. per cwt., c.i.f.

RUBBER.—Rather more business this week and values show a small recovery; standard ribbed smoked sheet, spot, 2½d.; April, 2½d.; May, 2½d.; June, 2½d.; July-September, 2½d.; October-December, 2½d.; January-March, 1934, 2½d. per lb. Market is now steady.

SAFFRON.—Dealers' spot prices are maintained, market quiet: spot, prime B.P., 60s. 3d.; extra B.P., 56s.; super B.P., 53s. per lb., and slightly less for bulk quantities.

SARSAPARILLA.—Some small spot business moving: spot, native mixed colours, 1s. 1d. to 1s. 1½d.; grey Jamaican, 1s. 9d. to 1s. 10d. per lb., as to quantity.

SEEDS.—Markets quiet and unchanged. **ANISE.**—Spot, Spanish, 52s. and Bulgarian 40s., duty-paid. **CANARY.**—Mazagan on spot, 12s.; Tangier, 11s. 6d.; and Kenitra, 10s. 6d. **LINSEED.**—Mazagan, 15s. 6d.; Morocco, 14s. 6d. **CORIANDER.**—Morocco, 1920 crop, 15s. 6d.; 1932 crop, in bond, 15s. 3d. and duty-paid, 16s. 6d.; Wormy, 13s. 6d. to 14s. 6d. **CUMIN.**—Malta, 40s.; and Morocco, 32s. 6d., spot. **FENUGREEK.**—Tunisian, 15s. 6d. spot; Morocco, 12s. 6d. **CARAWAY.**—Dutch, 34s., duty-paid. **MUSTARD.**—English, 21s. to 33s., according to quality.

SENEGA.—The market is quoted slightly cheaper this week with spot about 1s. 10d. to 1s. 10½d.; shipment, about 1s. 9d. per lb., c.i.f.

SENNA.—There has been some business done in the better grades of hand-picked Alexandrian pods. Business in the manufacturing qualities is slow. Tinnevely leaves continue to meet with a fair demand at steady rates; Tinnevely pods are about steady.

TRAGACANTH.—Deliveries have been substantial while landings have been small. Stocks are unusually low.

WAX (VARIOUS).—Business is moving slowly and mostly in small quantities. Quoted prices are about unchanged. Japanese is quiet and quoted in the region of 42s. per cwt. **CARNAUBA**, fatty grey and chalky grey, is steady at 87s. 6d.; medium yellow is steady at 140s.; fine yellow is unchanged at 155s. **CANDELLA** steady at 75s. per cwt. **SPEKMACETI** steady at 9½d. per lb., spot. **PARAFFIN** is about steady at 22s. 6d. to 50s. per cwt. as to melting point. **CERESIN** is quoted from 35s. to 80s. per cwt. as to colour and melting point. **BEES'** has met with a fair business; supplies are restricted, market steady; bleached, discs, £7 10s.; slabs, £7 2s. 6d.; yellow refined is about steady at £5 15s.; yellow crude, 97s. 6d. per cwt. spot.

Essential Oils, etc.

BUSINESS has been very ordinary and restricted in volume. Citronella continues dull and rather unsteady. The afloat position of Japanese peppermint is being held up against the suggestion of short sellers. Sicilian orange and lemon are at cheap figures, but the demand is slow.

ANISE (STAR).—Market is dull and rather easy; spot, "Red Ship," in leads, 1s. 10d.; in tins, 1s. 7½d.; in drums, 1s. 7d.; shipment, in leads, 1s. 7½d.; in tins, 1s. 6½d.; in drums, 1s. 5½d. per lb., c.i.f.

BERGAMOT.—Shipment business slow; quoted unsteady in the region of 5s. to 5s. 4d. per lb., c.i.f. Spot is moving slowly in small lots at about 5s. 3d. to 6s. per lb.

BOIS DE ROSE.—Spot supplies are quoted at about 4s. 1d. to 4s. 3d. per lb.; shipment, 3s. 6d. to 3s. 7d. per lb., c.i.f. Market steady, but quiet.

CASSIA.—Some limited inquiry with spot at about 3s. 7d. per lb. and shipment at 2s. 11d. per lb., c.i.f.

CITRONELLA.—Inquiry in this market continues below average and the tone is inclined to be easy. Ceylon, spot, 1s. 10½d. to 1s. 10½d.; shipment, 1s. 8d. per lb., c.i.f. Java, spot, 2s. 7½d. to 2s. 8d.; shipment, about 2s. 2d. per lb., c.i.f.

CLOVE.—English is quoted from 4s. 3d. to 4s. 6d. per lb., as to quantity. Madagascar, spot, 3s. 3d. to 3s. 5d. per lb.; shipment is dearer at about 2s. 4d. per lb., c.i.f. Market is steadier but quiet.

GERANIUM.—Business has been of small account this week. Bourbon, for shipment, 20s. per lb., c.i.f. Spot, about 23s. and less for some qualities. Algerian, shipment, 22s.; spot, 23s. 6d. per lb.

JUNIPER BERRY.—Bulk quantities would be rather less than the quoted price of 3s. 6d. per lb.

LAVENDER.—Offers at cheaper prices than those quoted for best brands of French are on the market: 50 to 52 per cent., 10s. 3d. to 10s. 6d.; 40 to 42 per cent., 9s. to 9s. 3d.; 38 to 40 per cent., 8s. to 8s. 6d.; 36 to 38 per cent., 7s. 3d. to 7s. 6d.; 30 to 32 per cent., 6s. 9d. to 7s. per lb., delivered. This market is irregular.

LEMON.—Business in new crop hand-pressed Sicilian is far below average and quotations remain at low levels of about 3s. 3d. to 3s. 6d. per lb., c.i.f., as to brand, for bulk quantities. Spot is at about 3s. 6d. to 3s. 10d. per lb., as to quantity. Californian, spot, in large drums, 48 cents; in small drums, 49 cents per lb.

LEMONGRASS.—This market is steady; business moderate; spot, 2s. 1½d. to 2s. 3d.; shipment, 1s. 11½d. per lb., c.i.f.

LIME.—Dull and slightly easier, with small spot lots about 37s. 6d. per lb.

ORANGE.—Rather less inquiry for the French colonial product, which is quoted for shipment at about 2s. 2d. to 2s. 3d. per lb. for bulk parcels. Spot, about 2s. 6d. to 2s. 9d. for small lots. Sicilian sweet is dull, with new crop for shipment at 4s. 10d. to 5s. 2d. per lb., c.i.f., as to brand; spot, 5s. 6d. to 6s. per lb., as to quantity. Californian, spot, single cases, 50 cents; two or more cases, 45 cents per lb.

PALMAROSA.—Dealers are quoting spot at about 7s. 3d. to 7s. 6d. per lb., as to quantity.

PEPPERMINT.—There has been a modest inquiry for Japanese on spot, with holders quoting steadily at 5s. 9d. per lb. Goods afloat are quoted up to 6s. per lb., c.i.f., with practically nothing doing; this price suggests the possibility of there being short sellers. For shipment April-June is mentioned at about 5s. 5d., c.i.f., with no interest shown. At the close the market was flat, but quotations for all positions were maintained. American natural oil is steady for shipment from two dollars per lb., c.i.f., in drums, and a fair business is reported.

PETITGRAIN.—A little more inquiry, market steady. Spot, 4s. 5d. to 4s. 6d. per lb.; shipment, 3s. 9d. to 3s. 10d. per lb., c.i.f.

ROSEMARY.—Good-quality Spanish is steady on spot at 1s. 9d. per lb. French is quoted at 3s. 2d. to 3s. 4d. per lb.

SPEARMINT.—The shipment market is holding at last week's better figures of 6s. 4d. per lb. Spot is quoted in the region of 7s. 6d. per lb. for small parcels.

SPIKE.—Dealers quote Spanish from 3s. 1d. to 3s. 4d. per lb., as to quality and quantity.

WORMSEED.—Dealers are quoting small spot lots at about 12s. to 12s. 3d. per lb. Shipment is at about 10s. 9d. per lb., c.i.f.

The following are current quotations for synthetics, etc.: Acetophenone, 6s. to 6s. 4d. per lb.; amyl acetate, pure, 122s. 6d. per cwt., technical, 107s. 6d.; amyl salicylate, 2s. 3d. per lb. for cwt. lots, up to 2s. 9d.; aubepine, ex para cresol, 8s. 3d. to 8s. 9d. per lb.; benzaldehyde, f.i.c., 2s. 1d. to 2s. 6d. per lb.; benzyl acetate, f.i.c., 1s. 6d. to 1s. 10d. per lb.; benzyl alcohol, 1s. 11d. to 2s. 3d. per lb.; bromstyrol, 100 per cent., 11s. 3d. to 11s. 6d. per lb.; butyric acid, 3s. 3d. to 3s. 6d. per lb.; citral, chemically pure, 8s. to 8s. 6d. per lb.; coumarin, 13s. to 14s. per lb.; ethyl phthalate, 2s. 6d. to 2s. 8d. per lb.; eugenol, 7s. 6d. to 8s. per lb.; geraniol, ex palmarosa, 16s. to 18s. per lb.; heliotropin, 100 per cent. crystals, 4s. 11d., in cwt. lots up to 6s. per lb., as to quantity; iso eugenol, 5s. 6d. to 10s. per lb.; methyl anthranilate, 6s. 9d. to 7s. 6d. per lb.; mirbane, 8½d. to 10d. per lb.; musk, ketone, 33s.; ambrette, 30s.; xylol, 8s. per lb., with bonus for quantities; phenyl ethyl alcohol, 8s. 6d. to 9s. per lb.; safrol, 1s. 4d. to 1s. 9d. per lb.; terpineol, 1s. 4d. for ton lots up to 1s. 9d. per lb. for small parcels.

Indian Chemical Imports—April to December, 1932

THE value of imports of chemicals for the period April-December, 1932, was Rs. 208½ lakhs, compared with Rs. 187½ lakhs during the same period of 1931. The following table gives particulars of the imports under the principal headings:—

	1931 Rs. (lakhs)	1932 Rs. (lakhs)
Acids	5½	5½
Bleaching powder	7	7½
Carbide of calcium	5½	5½
Copper sulphate	2½	2
Disinfectants	5½	5½
Glycerine	2	2½
Potassium chlorate	4½	8
Sodium bicarbonate	5½	5½
.. carbonate	45½	52½
.. cyanide	2½	2½
.. silicate	1½	1½
Caustic soda	24½	25½
Sulphur (brimstone)	13	14½

The imports of drugs and medicines for the last nine months of 1932 totalled Rs. 138½ lakhs, compared with Rs. 139½ lakhs for the same period of 1931. The principal items which make up this total are as follows:—

	1931 Rs. (lakhs)	1932 Rs. (lakhs)
Camphor	20	19
Proprietary and patent medicines	35	27½
Quinine salts	18	21
Saccharine	1½	1½

Sudan Gum Acacia Exports

BOXALL & Co. report that the total exports for February amounted to 1,716 tons, compared with 1,820 tons in February, 1932. Shipments for January-February totalled 2,556 tons, compared with 3,768 tons for the same two months of 1933. The chief destinations were as follows:—

Destination	1932			1933		
	January	February	Total	January	February	Total
Great Britain ...	424	454	878	120	332	452
U.S.A. ...	274	212	486	65	170	235
France ...	163	279	442	21	72	93
Germany ...	300	246	546	269	295	564
Italy ...	140	128	268	105	127	232
Belgium ...	99	72	171	49	77	126
Japan ...	195	96	291	76	425	501
Holland ...	130	68	198	33	68	101
Spain ...	23	50	73	14	56	70
Sweden ...	14	46	60	3	6	9
Australia ...	—	16	16	13	13	26
China ...	48	8	56	11	17	28
Canada ...	17	—	17	5	5	10
British India ...	10	27	37	2	1	3
Denmark ...	23	8	31	2	5	7
Egypt ...	12	43	55	17	—	17
Argentina ...	26	16	42	16	14	30
Brazil ...	2	20	22	1	3	4
Uruguay ...	5	5	10	—	—	—

The export figures are made up of the following qualities:—

	Hashab	Bleached	Talha	Total
February, 1932 ... tons	1,670	22	128	1,820
February, 1933 ... tons	1,511	11	194	1,716
January-February, 1932 tons	3,556	33	179	3,768
January-February, 1933 tons	2,299	15	242	2,556

Correspondence

Letters should be written on one side of the paper only. Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

The "C. & D." Retail and Dispensing Price List

SIR,—As an ardent advocate of better remuneration for chemists may I be allowed to express my appreciation of the April C. & D. Price List? Good though its predecessors were, the new issue is a decided improvement on them, and the new classifying of the various products should render pricing more rapid. It is gratifying to find that special reference has been made to time and actual labour, as this item is so often lost sight of by chemists in retail dealings. The basic figure of 60d. per hour is in every way satisfactory (incidentally, this is the figure I have worked on for some years in the marketing of a pharmacy-made proprietary), and should facilitate the correct pricing of professional services. Undoubtedly the costing method is the only satisfactory one, but I think you do well in retaining the Rapid Pricing table as a minimum, because in districts where the standard of prescribing is not high pricing by the costing method would inevitably tend to lower the charges already existing. You have rendered inestimable service to the cause of better remuneration for chemists, and it now remains for everyone to adhere to the principles laid down. Then will pharmacy get its "place in the sun."—Yours truly,

COMMON SENSE (10/4).

SIR,—The arrival of your Retail and Dispensing Price List, with its newly arranged sections, is an event upon which one feels compelled to offer you hearty congratulations for two reasons, namely, that your enterprise has for nearly twelve years provided the chemist with a counter adjunct of the greatest value, and that you have now so completed the orderly arrangement of the list as to have made it practically perfect. As I have turned over its pages I have been much impressed with the multiplicity of items contained in it, and have been consequently startled by contemplation of the responsibility resting upon the shoulders of the man who has to face the demand for so many articles and so varied a collection of medicines and surgical appliances. As I write I read in one of the newspapers a complaint from a man who is disgruntled that the chemists' windows contain such a strange assemblage of "side-lines" that it is not easy to distinguish the chemist from the other shopkeepers. There is some justification for the observation; but I cannot help wondering what he would say if he knew that all those "side-lines" were an undertaking additional to the nearly 4,000 items comprised in your list. It does seem to me that the example you have set in the display of the contents of the List is well worth the consideration of all who take a pleasure in the arrangement and classification of their stock in all its varieties. That the pharmacist has to make himself responsible for the instant supply of so large a number of legitimate pharmaceutical commodities is of profound significance, and it ought to be impressed upon the minds of everyone who ventures in any measure to depreciate the chemist's services.—Yours, etc.,

SENEX (11/4).

Pharmacy and Poisons Bill

SIR,—In reply to "Redivivus" (C. & D., April 8, p. 401) I should like to remark that a delegates' meeting such as that to which he refers could not possibly be representative of the rank and file, because it was constituted of those lucky members of the Pharmaceutical Society who were sufficiently affluent to be able to afford a qualified assistant to take charge in their absence, and to give them relief generally. The large majority of our members are totally opposed to the Bill; it will not only render them liable to more and more inspection, perhaps at very inconvenient times, but to pay for all this we are to be saddled with £5 or so in licences and membership fees. Presumably the Council think that the £36,000 they have in hand will not increase with sufficient

rapidity to provide a sum of sufficient magnitude in their lifetime to build a palace gorgeous enough to house their magnificences. There is no altruism about the members of the Council. Pharmaceutical Councils have never been remarkable for their regard for the members' interests, but this one shows a callousness which exceeds any of them.—Yours faithfully,

VOX POPULI (12/4).

SIR,—Your correspondents Mr. Arthur Flood and "Yorkshire" (C. & D., April 1, p. 375) suggest that chemists who are opposed to the Pharmacy and Poisons Bill should approach their members of Parliament and ask them to vote against it. But if their local member is in the Government party, our Parliamentary system is so constituted that he cannot well vote against a Government measure, while if he is a member of the Opposition his vote will be useless against the Government majority. Unless there is a general consensus of opinion aroused in the House against the Bill it is sure to go through, and I do not think that sufficient members of Parliament are interested in the troubles of pharmacists one way or the other. Whether there will be any opposition from any other quarter I do not know. The contributor who provides a critical review of the Bill (p. 350) says that the establishment of a statutory disciplinary committee is a distinct gain if wisely handled, and that regarding the inspection of pharmacies it seems reasonable to assume the Council will exercise their powers with tact and discretion. What pharmacists who are criticising the Bill are afraid of is that all these assumptions may prove unfounded. Again, your contributor says that the effect of the Bill on the sale of poisons is to a certain extent speculative; that is the whole trouble with the Bill from end to end. I do not condemn it because it does not grant us a trade monopoly, but because so much of its interpretation is left vaguely in the air.—Yours faithfully,

OPPOSIT (11/4).

Penny Articles

SIR,—While agreeing in principle with all that "Common Sense" says in the C. & D. recently regarding the sale of penny articles, I would ask him what he considers would be the position of a pharmacist who refused to sell anything below 6d. There must be many chemists who are in a similar position to myself, situated in a town sandwiched between two bazaars, a couple of drug stores not far off, an oil shop which hangs carded drugs on the door and has boxes of proprietaries on the pavement at cut prices, while the biggest grocer has a patent-medicine licence and makes a feature of his "drug department." For a long time I set my face against what "Common Sense" calls trivial sales, with the result that many customers walked out without making purchases, to go to one of these other shops to get their threepenny or sixpenny lines; as I had had some experience of the way in which goodwill can be lost if one tries to ignore competition, I was at last compelled to follow suit. I think that "Common Sense" is putting the cost of serving a customer a little too high at 6d.; in some shops with excessive rents and rates it may be so, but in the average pharmacy I should put it at nearer 3d.

Yours truly,

TRIVIALITY (14/3).

"Store" Prices

SIR,—I was interested in the letter regarding "store" prices in your issue of April 8 (p. 402) sufficiently to take up the price list of a well-known firm of wholesalers; and I find that if a "small" man particularly wants to meet such competition it is quite possible, so long as he is prepared to pack a few bottles in his spare time to save labour costs. Allowing for bottles at 30s. per gross 16-oz., and 16s. per gross 6-oz., also for bottle

caps, and labels at 1s. per 100, I estimate the following costs:—

	Store Price	Actual Cost (small lots)	Based on contents at
Liquid paraffin 3 vj.	1/4	11/6 doz.	7/- gall.
Glycerin 3 xvj.	1/7	13/- doz.	8d. lb.
Cod-liver oil 3 xvj.	1/4	11/3 doz.	7/- gall.
Witch hazel 3 vj.	1/1	8/- doz.	13/6 gall.
Eucalyptus oil 3 iv.	1/-	7/8 doz.	2/- lb.
Glycerin and rose water 3 xvj.	1/2	7/- doz.	4d. lb.

A man who has to buy small lots can only meet such competition by packing in odd free moments. When he can buy in larger quantities, the extra profit should enable the usual labour costs to be added. Further, there are wholesale houses known to us all as "first-class" with prices accordingly. There are other old-established houses more competitive in price. Obviously some competition can hardly be met by a small man unless he purchases from the latter.—Yours truly,
MIDLANDER (10/4).

When Services Are Declined

SIR,—May I ask those advertisers who do reply to every applicant for a situation to remember that the unemployed are already dejected? From a big firm the following is rather crushing. "... Your application has not been successful." Sounds as though it's the applicant's fault. But this type, usually from the little man with a soul, is most inspiring: "... regret I must disappoint you this time, but let me say how I appreciated your very concise letter." That's the reply that keeps hope alive.—Yours truly,

UNEMPLOYED (7/4).

Legal Queries

H. A. (23/9).—Since the powders are sold unstamped, although bearing a dutiable title, it is evident that the powder itself consists of a single ingredient without any admixture whatsoever. In this case the powders benefit by the exemption covering "entire drugs," which may be recommended for ailments without incurring liability to medicine-stamp duty and may be sold unstamped by persons holding a medicine licence.

F. H. (27/2).—Is an apprentice who receives no remuneration in the same category as a shop assistant, within the meaning of the Shops Act, 1912? [If the apprentice is "wholly or mainly employed in a shop in connection with the serving of customers, or the receipt of orders, or the despatch of goods," he is a shop assistant within the meaning of the Act, even if he is not paid any wages.]

J. E. C. (2/2) wishes to place an automatic weighing machine in front of his premises, at the side of one of his shop windows. The window is built out from the front line of the shop itself so that the weighing machine will not project upon the pavement beyond the window. The Town Council has refused permission for the machine to be placed in that position. Is this refusal justified? [Unless "J. E. C." owns the ground in front of his shop upon which he intends to place the weighing machine he has no legal right to put it there. If he places the machine upon ground that is part of the public footpath he will run the risk of being prosecuted for obstruction and fined.]

G. W. (3/12).—Two years ago A bought a house with the aid of a building society mortgage. He has since paid regularly his instalments of principal and interest, but he now wishes to leave the district. Under the terms of a mortgage of this kind, is he entitled to discontinue the payments and leave the house in the hands of the society? [Although the society, in the circumstances stated, would be entitled to take possession of the house and sell it in order to recover the outstanding amount of the loan and interest, it could instead exercise its right of action against A personally for the instalments as they become due. Alternatively, the society could sell the house for what it will fetch and claim from A any balance that may remain owing.]

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for, and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

W. W. (7/33).—HARMFUL EFFECTS OF LUMINOUS PAINT.—So far as we are aware there is no great risk to workers, but great care should be taken to ensure that the operator under no circumstances attempts to obtain a fine tip to the brush by applying it to the lips. This procedure would mean that the operator would in time absorb a certain amount of radium compound, with serious effects to his health.

F. N. B. (6/33).—FLOWER RASH.—An effective method of treating flower rash consists in the application of the following lotion:—

Solution of coal tar	..	..	1 drachm
Alcohol	..	..	4 oz.
Distilled water	..	..	to 10 oz.

W. C. L. (13/33).—WORMS IN FURNITURE.—A preparation which appears to satisfy all the conditions met with in treating antique or valuable woodwork is that made according to the following formula of the late Professor Lefroy:—

Ortho-di-chlor-benzene	..	..	91 parts
Castile soap	..	..	7 parts
Cedarwood oil	..	..	2 parts

This mixture does not discolour even light-coloured wood: it is not highly inflammable nor dangerous to use, and its odour is not objectionable. All wood before treatment must be thoroughly dusted and the insecticide carefully applied, particular care being taken that no crevices or joints are overlooked. The control of death-watch or furniture beetles is dependent on the thoroughness with which the insecticide is applied and can best be secured by periodic treatment. Another formula which was at one time advocated by Lefroy is:—

Zinc or barium oleate	..	..	3
Cedarwood oil	..	..	3
Soap	..	..	1
Paraffin wax	..	..	10
Water	..	..	83

To this a volatile poison such as dichlorbenzene should be added.

One of the last formulas to be recommended by Lefroy was:—

Dichlorbenzene	..	..	50 per cent.
Mineral oil	..	..	47 per cent.
Barium oleate	..	..	3 per cent.

W. L. (13/38).—POLISH FOR MARBLE.—Liquid polishes for marble are generally solutions of white wax, usually about 1 in 10 of turpentine.

Retrospect of Fifty Years Ago

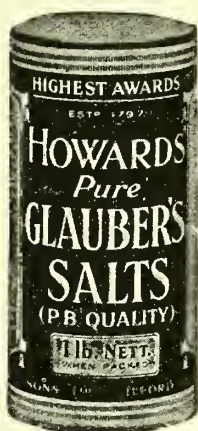
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"The Chemist and Druggist," April 14, 1883

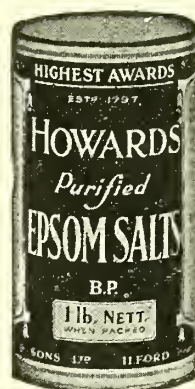
Carbolic Acid and the Coroners

In order to test competent public opinion with regard to Clause 2 of the draft Pharmacy Bill now before the Privy Council, we have during the past week sent to the coroners of England and Wales copies of the circular subjoined, with a request that they would favour us with their opinion on the definite point whether they consider, as a matter of public safety, the sale of carbolic acid ought to be restricted to chemists and druggists, or whether they agree with the proposal to let it be sold by other traders under certain conditions of labelling. . . . At present we have before us fifty-seven replies from coroners. Of these forty-nine are distinctly, and many of them most emphatically, in favour of restricting the sale of carbolic acid to chemists and druggists; several think the other acids named ought also to be under similar restrictions. . . .

HOWARDS'



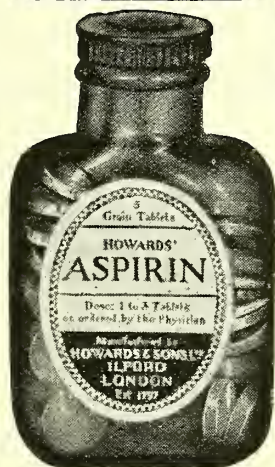
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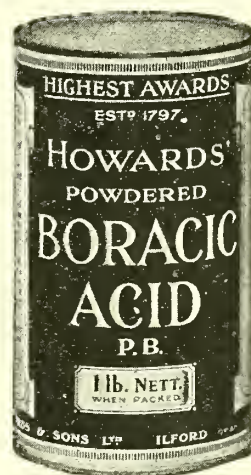


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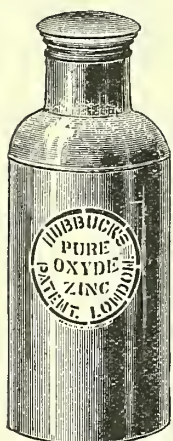
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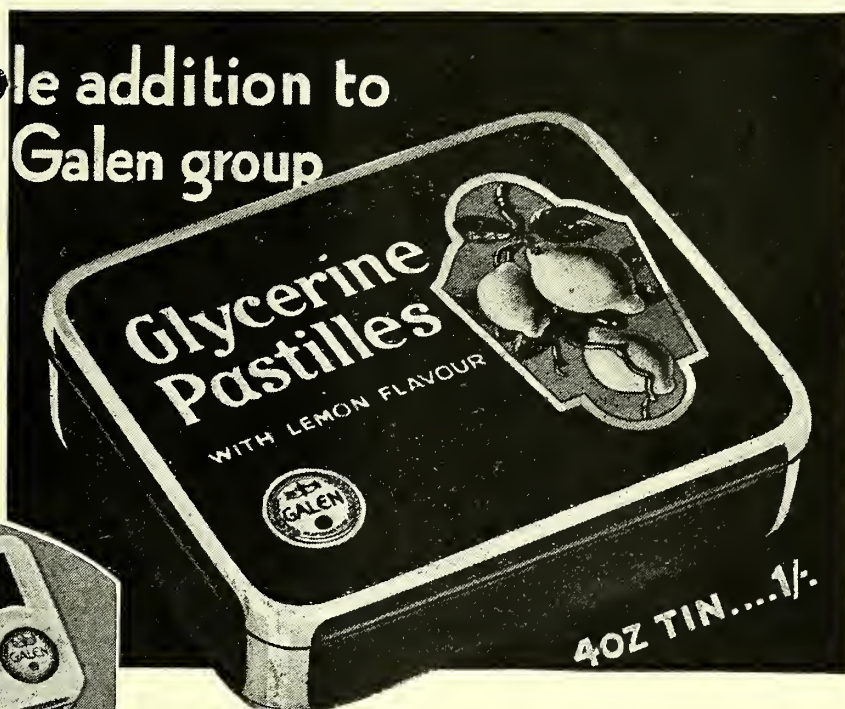
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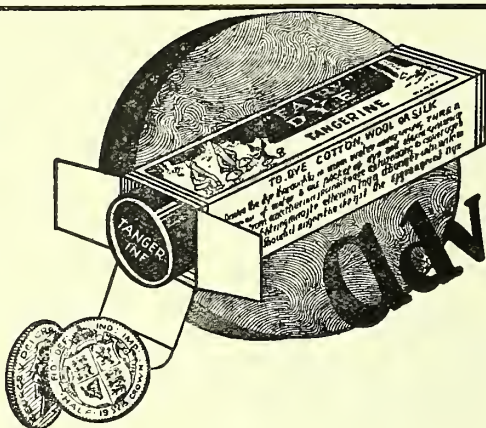
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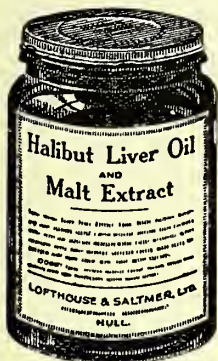
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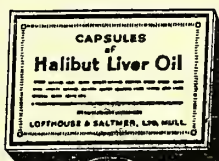


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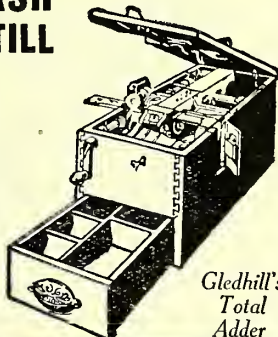
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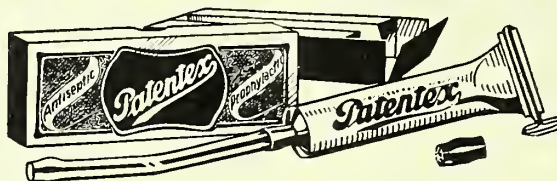
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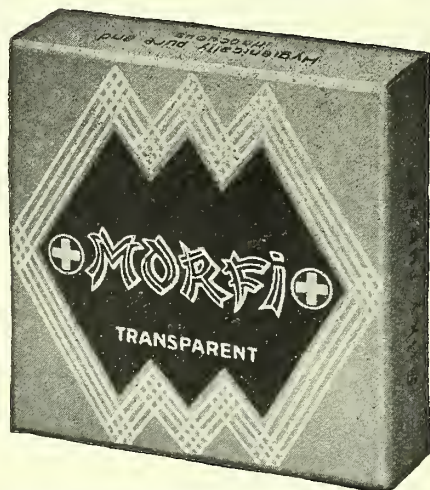
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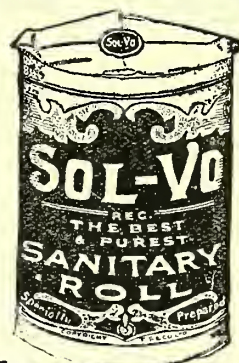
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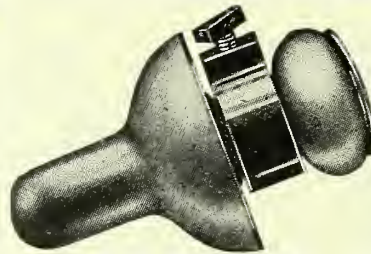
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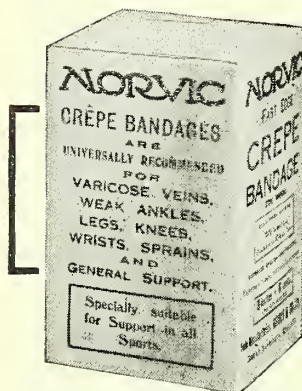
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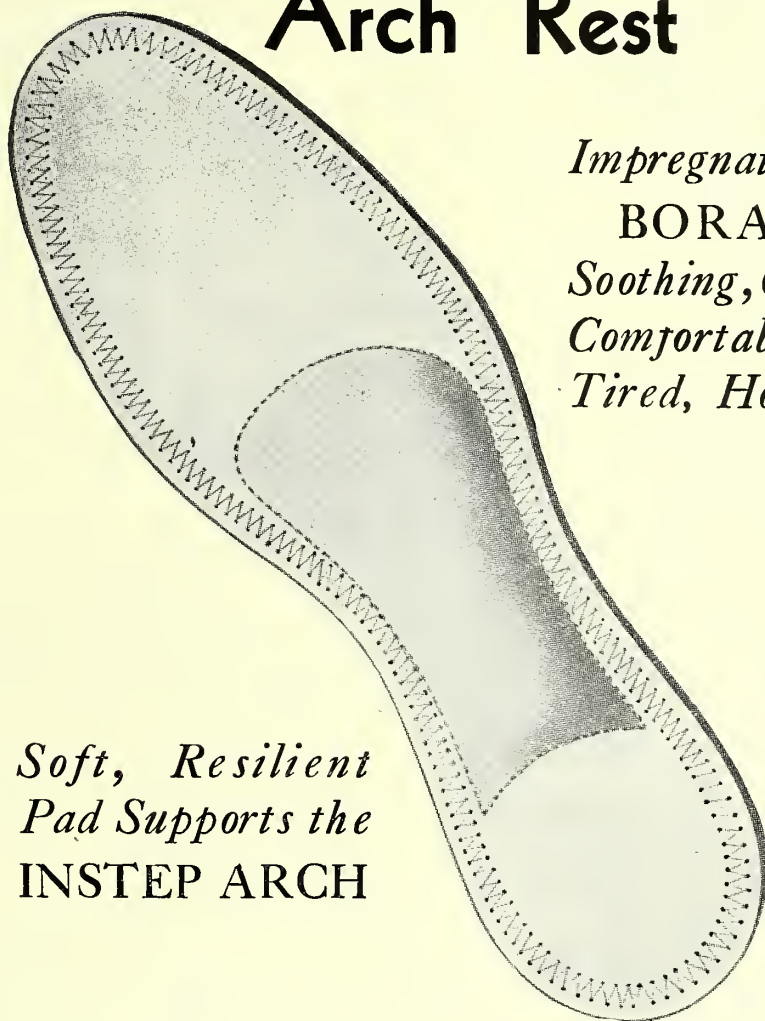
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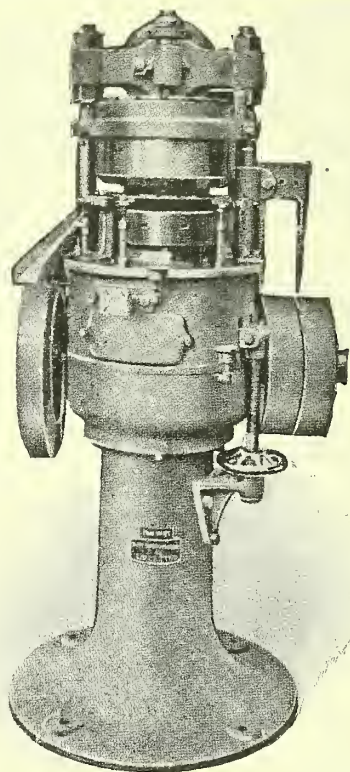


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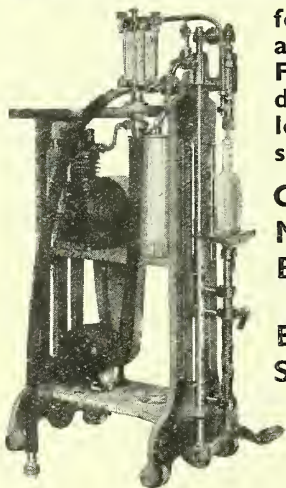
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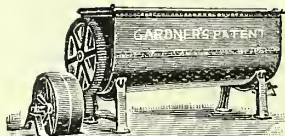
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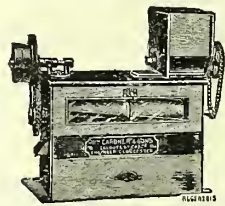
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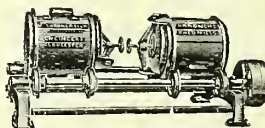
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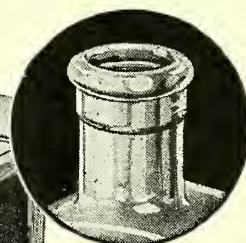
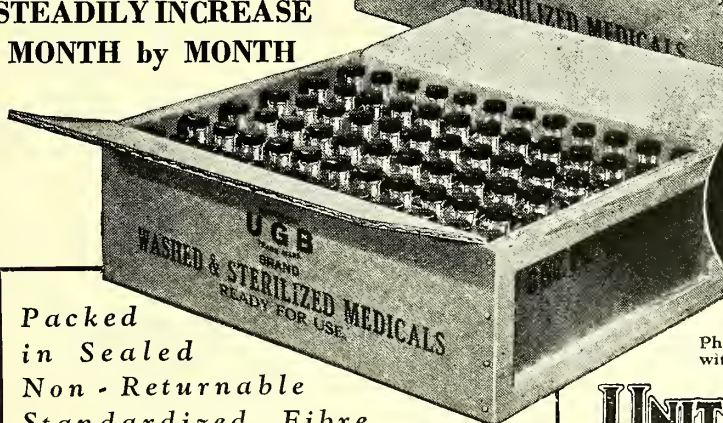
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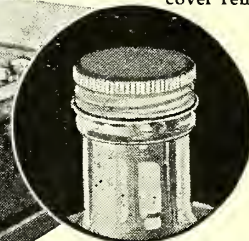
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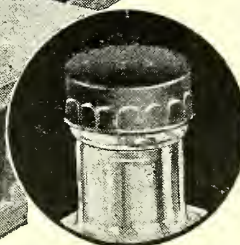


1. CORK MOUTH
Photograph of actual package of Cork-mouth bottles with cover removed.



2. WHITE ENAMELLED ALUMINIUM SCREW CAP

Photograph of actual package of Screw-cap bottles with cover removed.



3. BLACK KORKALITE MOULDED CAP

Photograph of actual package of bottle with Black KORKALITE MOULDED Caps.

*Packed
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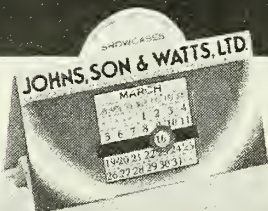
1 oz. Packed 2 gross per case	8 oz. Packed 6 doz. per case
2 oz. " 1 1/2 " "	10 oz. " 4 " "
3 oz. " 1 " "	12 oz. " 4 " "
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6 oz. " 6 dozen "	20 oz. " 3 " "

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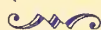
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JUNE 24, 1933

—Note the Date

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APRIL 15, 1933

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6.—**CROYDON.**—Cash Retail and Dispensing Business, with Kodak Agency; established about 50 years; net profit last year £538; modern shop, with large house; stock and fixtures worth between £1,100 and £1,200; rent £100; 16 years' lease; price £1,450.

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8.—**HARROW** (Death vacancy).—Good-class Retail and Photographic Business; returns average £1,960, now about £1,600; autifully fitted pharmacy, well stocked; excellent house; price £1,150 or nearest offer for early sale.

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10.—**WARWICKSHIRE** (Busy Town).—Working-class Cash Retail; returns over £1,000 increasing; modern attractive shop with house attached, stock and fixtures worth £500; price £450 or near offer.

11.—**MIDLANDS** (Death vacancy).—Busy Middle-class Cash Business in same hands many years; returns last year £1,329; good profits; books audited; low rent; spacious shop with living accommodation; price £1,100 or near offer.

12.—**READING** (near).—Light Country Retail, pleasantly situated; returns over £900 last year; modern shop and house with large garden; one other chemist; price valuation, about £500.

13.—**EAST COAST.**—Sound Cash Business, in good position; returns about £800, scope for increase; good house and double-fronted shop; own property; lease granted; price £255 cash lowest.

14.—**LONDON, S.W.**—Good-class Family Retail, with sub-Post Office attached, in centre of densely populated residential area; easily worked; returns average £2,000; net profit £430; flat over; excellent stock; price £1,300 or near offer.

15.—**LONDON, E.9.**—Profitable Working-class Cash Retail; under management; present returns £15 a week; plenty of scope; nice house attached, on lease; no near opposition; price £500 or near offer.

16.—**LONDON, N.**—Good Working-class Cash Business; returns under manager £1,220, scope for increase; rent £80; long lease; double-fronted shop, with house; price £500.

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Prospective purchasers of businesses (all descriptions) are invited to communicate with the full assurance that all confidences will be strictly observed. Service and Assistance rendered without obligation or expense.

The following businesses have in the main been visited, and are recommended to appropriate would-be purchasers.

(C1) **BIRMINGHAM (SUBURB).**—Lock-up pharmacy situated in opening district of thickly populated working-class area, for disposal in death of proprietor; very large panel, averaging over 1,000 ft² per month for the last financial year; turnover for 1931 approximately £2,500; 1932, £1,800; rent and rates approximately £1,100; purchase price £850; audited net profits have in past years exceeded £500.

(C2) **LONDON SUBURB.**—Old-established retail pharmacy with 6-post office and good living accommodation; average returns for last three years approximately £1,950 per annum; no near opposition possible; any in the future; business situated in good-class residential area; purchase price approximately £1,300.

(C3) **SOUTHERN COUNTY.**—Old-established high-class dispensing business; present returns approximately £1,750 per annum, with excellent scope for increase; premises comprise lock-up pharmacy, etc., situated in fashionable shopping street; rent £100 per annum on lease; very high percentage gross profit; present net profit to an owner-proprietor is stated to approximate £500 per annum; interested potential purchasers are invited to write, in confidence, for further information, which, however, can only be supplied upon production of satisfactory evidence to the effect that the inquiry is genuine, and that the necessary capital is available; the business is of a type not frequently available, and is most favourably and congenially situated.

(C4) **CHESHIRE** (Death vacancy).—Good retail and dispensing business showing average returns for the past three years of approximately £1,600 per annum; reasonable rental and purchase price; further particulars upon application.

(C5) **LIVERPOOL.**—Established retail cash business situated on city main road; average returns for past three years upwards of £1,600 per annum, with undoubted scope for further increase; present net profit to owner-proprietor upwards of £450 per annum; good living accommodation, self contained; rent £95; rates approximately £27; rebase price £1,250 or near offer, which includes stock of approximately 20, and unique internal fixtures.

(C6) **SOUTHPORT** (Near).—Pharmacy with busy sub-post office showing returns of approximately £2,000 per annum; living accommodation; good dispensing, including N.H.I.; it is estimated that the profit to an owner-proprietor would approximate £500 per annum; quick sale is desired, in consequence of which the owner is prepared to accept approximately £1,000 for fixtures and goodwill plus stock at valuation or by agreement; property could be purchased or rented on lease.

(C7) **STREATHAM (NEAR).**—Pharmacy with good living accommodation situated in populous middle-class residential area; turnover for last financial year approximately £1,400 with genuine scope for further increase; freehold can be purchased at a reasonable figure, or alternatively a lease would probably be granted at an inclusive rental of approximately £90 per annum; this proposition represents an excellent investment for a Chemist capable of developing a personal connection, the nucleus of which already exists; purchase price, all-in, £700 or near offer; to a genuine potential purchaser the owner is prepared to allow a trial in advance.

(C8) **SOMERSET.**—Drug store in small country village, for disposal owing to retirement; abundant scope for further development; good living accommodation, lighted throughout with electricity; purchase price, including property, approximately £900, of which about £400 could no doubt be raised by mortgage if desired.

(C9) **LONDON, EAST.**—Established retail pharmacy with large panel, (approximately 900 scripts monthly); turnover upwards of £1,200 per annum, with net profit approximately £350; net rental £41, after allowing for sub-let of 15s. weekly; lease, 12 years unexpired; purchase price, all-in, £450.

(C10) **BLACKPOOL (NEAR).**—Pharmacy with good living accommodation for disposal owing to domestic circumstances; average returns approximately £1,200, with good scope for further increase; no near opposition; reasonable rental; purchase price for quick sale, all-at, £450; this business has been personally visited and is well recommended.

(C11) **LONDON (OUTER NORTH-WEST SUBURB).**—Modern pharmacy with good living accommodation for disposal owing to genuine health disability; attractive shop, well stocked and fitted; present returns approximately £1,600 per annum; further particulars will be forwarded to genuine prospective purchasers upon application.

(C12) **BIRMINGHAM** (Near).—Old-established Pharmacy with living accommodation for immediate disposal; present returns upwards of £20 weekly with large N.H.I. Panel (approximately 1,200 scripts per month); rent £50; reasonable purchase price; owner taking up research work.

(C13) **KENT** (NEAR LONDON).—Attractive pharmacy well fitted situated in main shopping thoroughfare; returns under management exceed £3,000 per annum, with good scope for further increase; net profit to owner-proprietor approximately £400; purchase price £1,250.

(C14) **DURHAM.**—Old-established pharmacy (lock-up), situated in leading position of small market town; average returns upwards of £3,000 per annum; rent £92 10s., less sub-let, £80; lease, 17½ years unexpired; price asked for lease and goodwill £500, stock and fixtures by valuation or by agreement (total estimated at £1,800).

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APPRENTICES.

APPRENTICE (17) requires situation, July; now at London College Pharmacy for Part 1; school certificate, distinction in Chemistry; preferably Oxford or West England; if possible live in, but not essential; educated Prior Park, Bath. Scott, 83 Avenue Gardens, Ilford, Essex.

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BOND STREET, a few yards from, in quiet street.—Exceptional opportunity to open Chemist's business, medium class (none near); 5 years' lease at £175 per annum inclusive; small lock-up shop, large window. 401/27, Office of this Paper.

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LEGAL NOTICE.

1933 B. 03.

IN THE HIGH COURT OF JUSTICE
CHANCERY DIVISION
MR. JUSTICE LUXMOORE.

IN THE MATTER OF THE BRITISH ORGANO-
THERAPY CO., LTD.

—and—

IN THE MATTER OF THE COMPANIES ACT, 1929.

NOTICE IS HEREBY GIVEN that the Order of the High Court of Justice Chancery Division dated the 23rd day of March 1933 confirming the reduction of the Capital of the above named Company from £22,000 to £1,100 and the minute approved by the Court showing with respect to the share capital of the Company as altered the several particulars required by the above Act, were registered by the Registrar of Companies on the 5th day of April 1933. The said Minute is in the words and figures following:—

"The capital of the Company henceforth is £1,100 divided into 10,000 Participating Cumulative ten per cent. Preference Shares of 1s. each and 12,000 Ordinary Shares of 1s. each. At the time of registration of this Minute 4,305 of the said Preference Shares and all the said Ordinary Shares are issued and the full sum of 1s. is to be deemed to be paid up on each of such shares respectively. The residue of the said Preference Shares (namely 5,695) are unissued."

Dated this 7th day of April, 1933.

ZABELL & CO.,
11 Queen Victoria Street, London, E.C.4.,
Solicitors for the said Company.

SPECIAL NOTICE.

STOLEN CASH REGISTERS.—Thefts of Cash Registers are increasing, and many stolen machines are being offered for sale. Recently a sentence of six months was passed for receiving some of these machines. If a second-hand cash register is offered to you and the price seems attractive, the National Cash Register Company will be pleased to advise as to its age and the name and address of the original purchaser or last known owner. Anyone who has had a cash register stolen is urgently recommended to communicate to the company the full details, which will be circulated immediately to all its 600 agents, mechanics and staff. **THE NATIONAL CASH REGISTER CO., LTD.**, 225 Tottenham Court Road, London, W.1. 'Phone: Museum 9811 (9 lines).

SITUATIONS OPEN.**RETAIL (HOME).**

BRIGHTON.—Competent Qualified Assistant wanted; age about 24; good experience. Please give full particulars of age, height, salary required and enclose photo, to 219/844, Office of this Paper.

LIVERPOOL.—Wanted, first-class Head Photographic Assistant; must be thoroughly familiar with the Photographic business generally, a good Window-dresser, and a really efficient man; commencing salary £5; please send photograph if possible. 219/840, Office of this Paper.

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TIMOTHY WHITES require a really capable Qualified Manager applicants must be energetic and possess ability; good prospects and free removal. Apply, stating experience, age, salary required, and full particulars, to Assistant Secretary, Timothy Whites (1928), Ltd., Portsmouth.

WANTED, Junior, from May 1 to October 28, possibly permanent; full particulars, age, height, experience and photograph in first letter. Willis, Seaton, Devon.

YOUNG, Qualified; busy N.H.I. and Counter; knowledge of Photography and Window-dressing; working-class trade; able to take control if required. Maby & Co., Ltd., 1 King David Lane, London, E.1.

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REPRESENTATIVES with connections in Birmingham and Manchester districts required, on liberal commission basis, to carry advertised line. Write, stating experience, lines now carried and ground covered, to 407/27, Office of this Paper.

SUBURBAN LONDON.—To obtain real district coverage applications invited from Salesman with established connections commission only first month, with contribution towards expense but with view, given satisfaction, salary and commission thereafter; the present carrying of another line no obstacle if uncompetitive. Write giving details, also exact territory. P.C.B. 71/24, Office of this Paper.

THREE more Representatives wanted for Eastern Counties and Yorkshire, Westmorland, Durham, Northumberland and Cumberland, and Dorset, Wiltshire, Gloucester, Somerset, Devon and Cornwall to carry well-known Medical Rubber Goods, &c. which could be eventually handled with other Agencies; liberal commissions on all direct and indirect business from districts allotted; only pushing men with sound connection amongst Chemists, Druggists and Hairdressers need apply to 219/841, Office of this Paper.

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A.A.A.A.A.—ASSISTANT (23; 5 ft. 9 in.), disengaged or suburbs preferred; trustworthy situation; permanency; London man and capable Window-dresser, Photographic, general knowledge of Dispensing. 399/11, Office of this Paper.

A.A.A.A.—QUALIFIED (25), married, requires progressive position in South-Eastern England; successfully entertained; excellent Salesman; well educated; varied experience including N.H.I. and Photographic; now managing. 406/9, Office of this Paper.

A.A.A.—QUALIFIED Scot (26), excellent testimonials; experienced Manager or Assistant; free May; Photography, Dispensing, Window-dressing. 406/5, Office of this Paper.

A.A.A.—Qualified (24), tall, competent in all branches; trustworthy; London or provincial. "Chemist, 70 Fentiman Road, S.W.8.

A.A.—GRACE RENNIE, Pharmacist, now booking Locums; experienced General and Public Assistance Hospitals; highest credentials. Craig y Don, St. Leonards-on-Sea.

A.A.—QUALIFIED Chemist-Optician requires permanency; Assistant or Manager; South Wales or West of England preferred; good references; moderate salary. T. Jones, 5 But Street, Cardiff.

A QUALIFIED experienced Manager, disengaged; permanency or locum; London or Suburbs; moderate salary. Davies, 109 Alexandra Drive, Surbiton, Surrey.

A S LOCUM, Manager and Holiday Assistant; 30 years' good experience Counter, Book-keeper, Dispensing and Worker. "Prescriber," 130 Scott-Ellis Gardens, N.W.8.

A SSISTANT, Unqualified (45); quick and accurate Dispenser; used to heavy N.H.I.; Counter, Widows; expert Surgical Fitter; capable and willing worker; excellent references. Prescriber, 2 Walham Grove, Fulham, S.W.6.

A SSISTANT (20), male, seeks position; 4½ years' good all-round experience; tall. Collins, 304 Thimblemill Road, Smethwick, Staffs.

A SSISTANT (23), Unqualified, seeks situation; 8½ years' thorough experience good-class Dispensing, Surgical Requisites, Photography and Counter; Optical student. Cooper, 68 Ashley Road, N.19.

C APABLE Assistant, Lady, 12 years' experience, Dispensing, Book-keeping, Counter, Photographic, requires post London or suburbs; excellent references. 407/5, Office of this Paper.

D ISENGAGED, Unqualified Assistant; Counter, Dispensing and Display; London and country experience; tall, excellent references, trustworthy, energetic. Tuck, 15 The Parade, Claygate, Surrey.

D ISPENSER, Qualified; Hospital and West End (with Optical qualification); middle-aged; good Prescriber; locum or permanency. Chemist, 46 Lower Pyke Street, Barry Docks, Glam.

F.B.O.A., J.C.Q.O. (27, single); attended Refraction Hospital; keen Refractionist; experience in Photography; managed D. & P. department; Window-dresser; 12 years' Pharmaceutical experience. "Toric," 122 Brudenell Road, S.W.17.

G ENTLEMAN, Unqualified (39), of good address and sound all-round experience, with excellent references, requires a post. "Conscientious," 406/24, Office of this Paper.

J. F. WATTS, Chemist, Swinton, Yorkshire, recommends his late apprentice, A. Wilkinson (20), as Junior Assistant; post required until September.

J.C.Q.O. F.S.M.C. (25), expert Refractionist; sound technical knowledge; 4 years' experience Pharmacy, Dispensing; Part I. M.P.S. examination; disengaged. 407/8, Office of this Paper.

J UNIOR, male (20), 5 ft. 11 in., Part I, requires situation until September; good all-round experience; keen Photographer; wages £2 weekly. Gill, Healey House, Huddersfield.

L ADY (Hall) desires post; good practical knowledge of Photography, Developing, Printing, Enlargements; experienced N.H.I. and Counter; locum or permanency; good worker; references. Edwards, 29 Sycamore Street, Rhydyfelin, Pontypridd.

L ADY, qualified (26), desires post, permanency preferred; good all-round experience; excellent references; disengaged May 15. Apply 407/9, Office of this Paper.

L OCUM TENENS.—Qualified, disengaged; West Riding; Reg. N.P.U. Francis B. di Menna, 44 Fagley Road, Bradford. Phone Bradford 7678.

L OCUM or Temporary, qualified; long experience; or Manager with investment. Chemist, 28 Fulham Park Gardens, S.W.6.

L OCUM TENENS.—Qualified Lady, extensive retail experience, N.H.I., also Institute Dispensing, highest credentials, now booking Retail or Institute. 402/20, Office of this Paper.

L OCUM.—Qualified Chemist-Optician requires locum Easter onwards; South Wales, particularly Cardiff area, preferred; moderate salary. Rees Jones, 5 Bute Street, Cardiff.

L ONDON and District preferred; Branch Manager, Qualified (29), desires change; conscientious, energetic worker, proved business builder; ability to increase takings; good Window-dresser, excellent Salesman; can be free one week. "Pharmacist," 13 Chetwynd Road, Ward End, Birmingham.

M ANAGER (30), Qualified, at present and for last 4 years in sole control of successful South Coast business, seeks responsible post; excellent references from past and present employers. 405/32, Office of this Paper.

N.B.—UNQUALIFIED (28), married; go anywhere, do anything; over 10 years' experience in all branches of the business (Dispensing, Photography, including workroom, Counter, Surgical, Window-dressing, Book-keeping, &c.); now disengaged; capable, energetic and reliable; not afraid of hard work; excellent references; permanency or season. Watson, Milestones, Chilworth, Guildford.

Q UALIFIED, married, as Senior or Branch Manager; sound experience in Dispensing and Counter; London or Suburbs. "Aspirin," 1 Parliament Hill, N.W.3.

Q UALIFIED Locum, disengaged till June 25, last fortnight **Q** July and after August 30. Jones, 331 Fulbourne Road, Walthamstow, E.17.

Q UALIFIED; 10 years' experience and reference; distance no object; locum or permanency. Phil., Red Lion Hotel, East Street, Epsom.

Q UALIFIED (47); managing City Pharmacy; West End, general London experience; excellent references; shortly disengaged. "Ian," 42 Myddleton Square, E.C.1.

R ELIABLE Drug Store Manager, Locum or Assistant to Chemist; middle-aged; unqualified; Dispensing and Prescribing; London or suburbs. B., 49 Wordsworth Avenue, East Ham, E.

U NQUALIFIED (22), 5½ years' experience Dispensing, Counter, Photographic, Windows; excellent references. S. G. Parke, 31 Weir Hall Road, N.17.

Y OUNG Lady seeks junior position Chemists or Store; 2 years' experience Counter, Window-dressing, assisting Dispensing, Book-keeping, typing; indoors or out. Smith, 14 Brunswick Square, Gloucester.

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